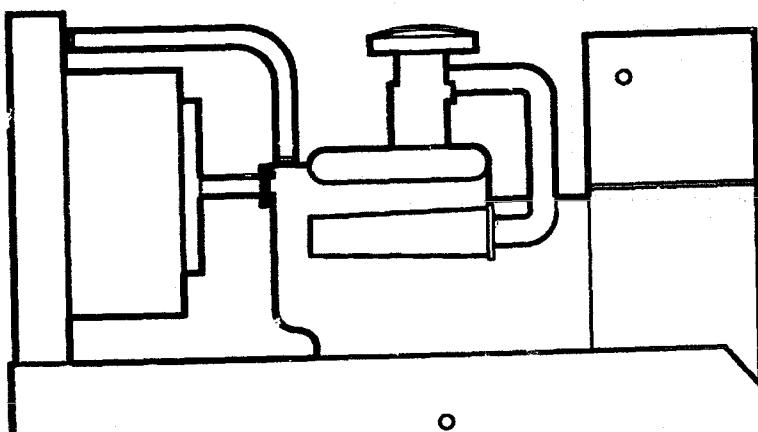


Onan

PARTS CATALOG

ENT Generating Set



928-0224
2-92 (SPEC A-C)
Replaces 8-90 (Spec A-C)
Printed in U.S.A.

Introduction

This Parts Manual applies to the Generator Set(s) Listed below. The illustrations are arranged in an assembly of related parts, and each part or assembly is identified by a reference number. All parts illustrated are typical, and unless otherwise mentioned in the description column of the parts list, the parts are interchangeable between all models.

These typical illustrations are subject to change and reflect only the latest replacement for the original factory installed parts. The Right and Left sides of the Generator Set are determined by FACING the engine end (FRONT) of the Set.

Set Data Table

MODEL IDENTIFICATION	KW RATING	RPM RATING	BATTERY VOLTAGE
75.0 ENT-*/#@	75,000 WATTS	1800 RPM	12 VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
B (3)	120/240	60	3	1	
E (6D)	240/480	60	4	3	
F (7)	220/380	60	4	3	
H (9X)	347/600	60	4	3	
L (15)	120/240	60	12	1	+
L (15)	120/208	60	12	3	+
	120/240				
	127/220				
	139/240				
	240/416				
	254/440				
	277/480				
N (53)	120/240	50	3	1	
Z (515)	110/220	50	12	1	+
	115/230				
Z (515)	110/190	50	12	3	+
	110/220				
	115/200				
	115/230				
	120/208				
	127/220				
	220/380				
	230/400				
	240/416				
	254/440				

* - Voltage Codes follow Model Letter designations.

- Specification number: number 1 is standard, all others indicate variations.

@ - Specification letter: letter advances (A to B, B to C, etc) with major manufacturing changes.

+ - These Generators are reconnectable, refer to Operator's Manual for wiring data.

Engine Replacement Parts

All Engine replacement parts must be ordered from the engine manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the engine manufacturer's nameplate and supply the Model, Specification, Serial Numbers and other available information. Refer to the engine manufacturer's manuals for your nearest authorized distributor or parts center; or contact the Onan distributor from whom you purchased this Set, for assistance in ordering replacement parts. Ford Model Number for this set is CSG-875-6005A.

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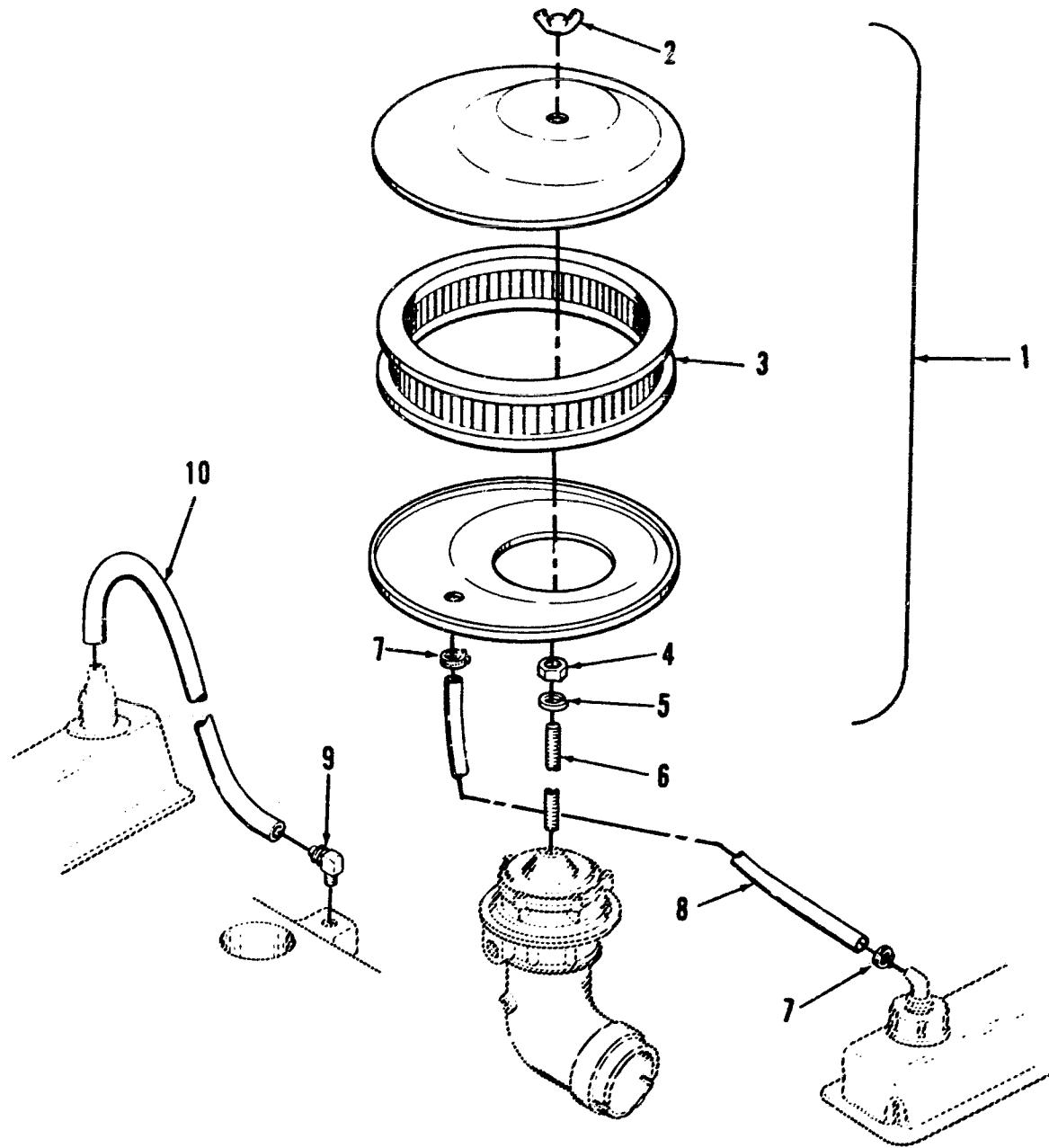
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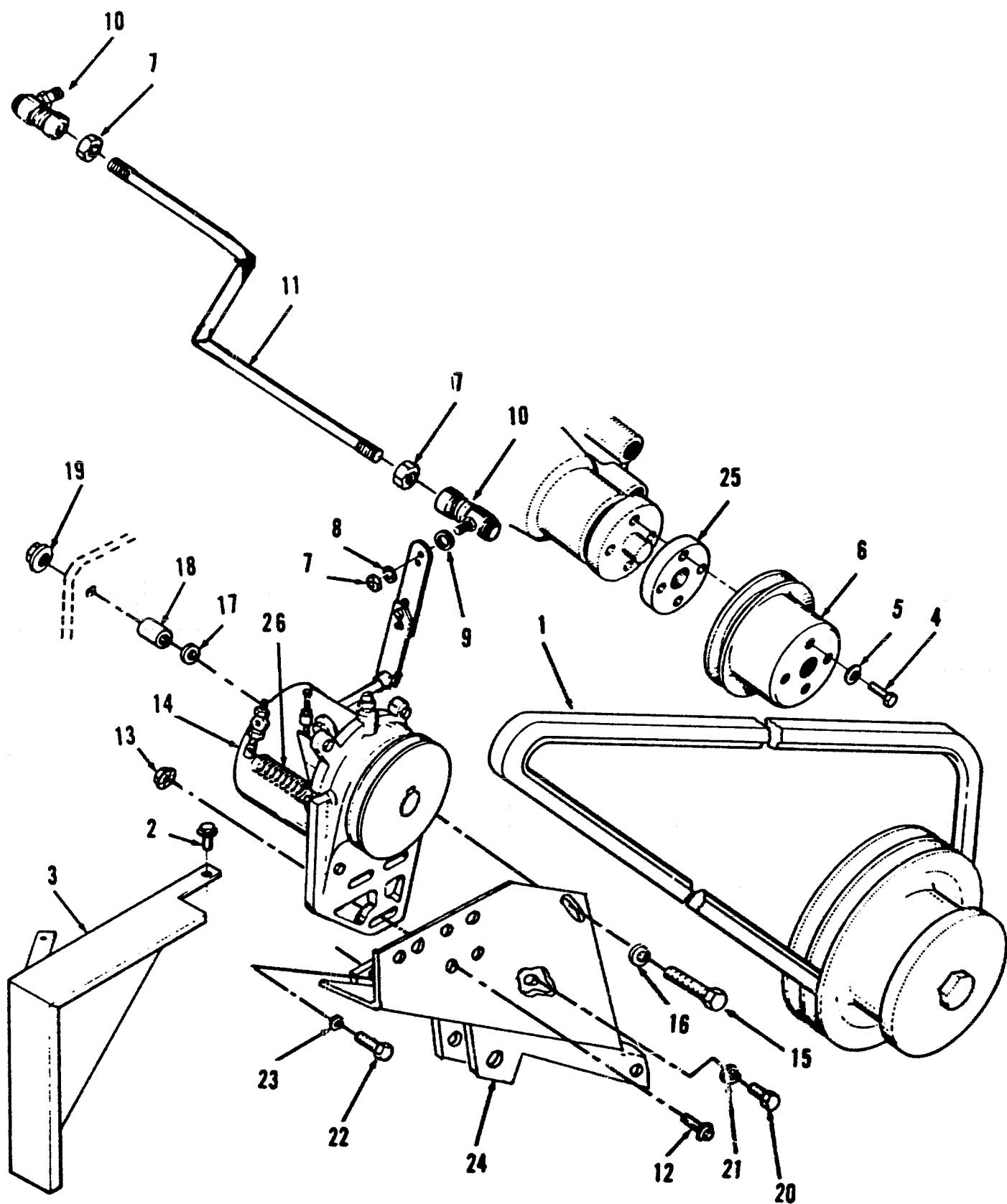
Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1724	1	Cleaner Assembly, Air (Includes Parts Marked *)	6	NFS	1	*Stud (1/4-20 x 6"LG)
2	865-0006	1	*Nut, Wing (1/4-20)	7	503-0547	2	Clamp, Hose
3	140-1837	1	*Element - Air Cleaner	8	503-1093	1	Hose, Rubber (5/8"ID x 19"LG)
4	862-0001	1	*Nut, Hex (1/4-20)	9	502-0237	1	Elbow, Pipe to Hose - 90° (3/8 NPT x 1/2"ID Hose)
5	850-0040	1	*Washer, Lock - Spring (1/4")	10	503-1100	1	Hose, Rubber (1/2"ID x 23"LG)

* - Parts Included in 140-1724 Air Cleaner Assembly.

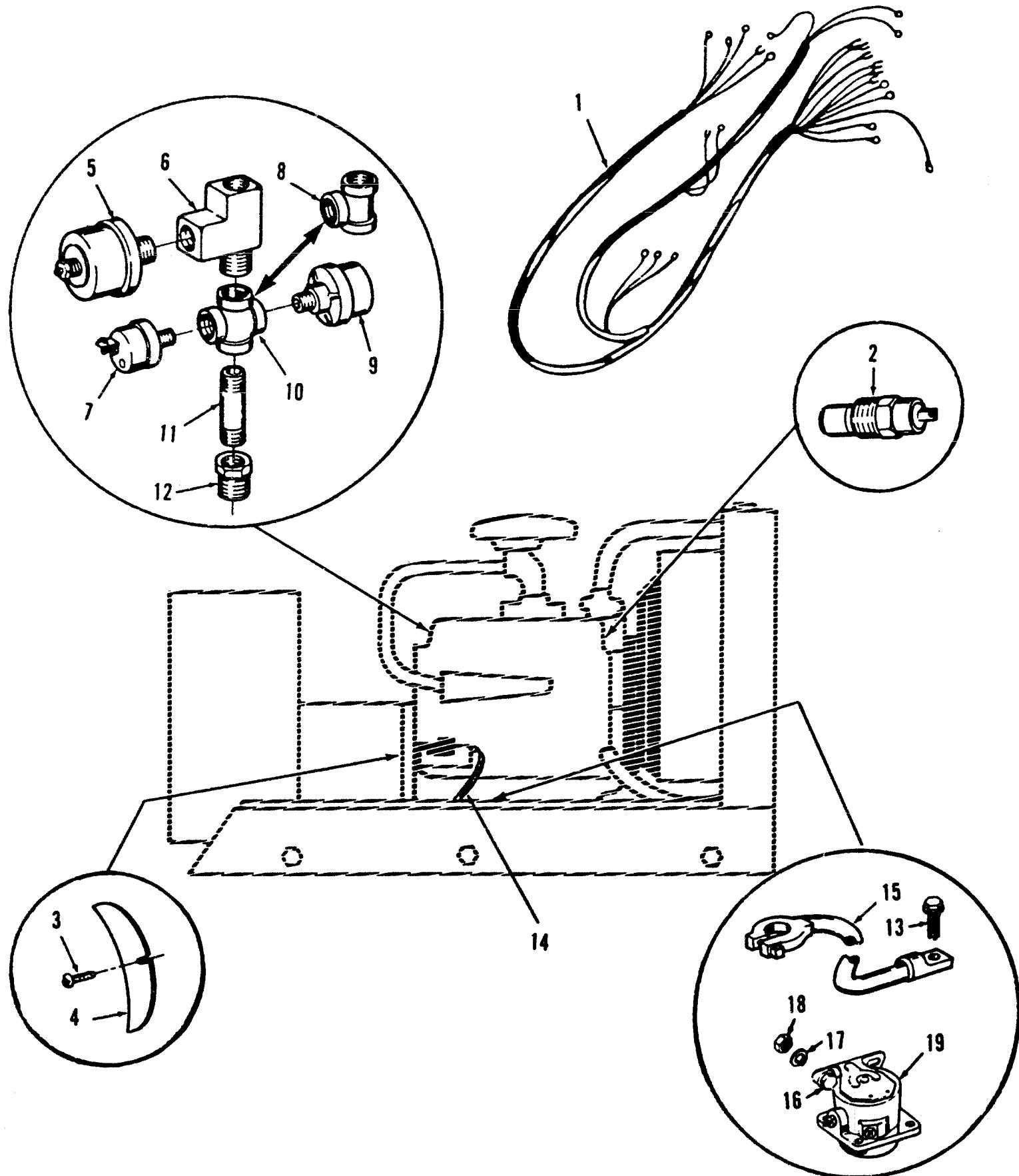
Governor - Mechanical



Governor - Mechanical

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	511-0084	1	Belt, Drive - V	15	800-0052	1	Screw, Cap - Hex Head (3/8-16 x 1-1/2")	
2	821-0010	3	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	16	850-0050	1	Washer, Lock - Spring (3/8")	
3	130-0991	1	Guard, Belt	17	526-0026	2	Washer, Flat (13/32"ID x 3/4"OD x 1/16"THK)	
4	801-0027	4	Screw, Cap - Hex Head (5/16-24 x 7/8")	18	130-0988	1	Spacer, Sleeve	
5	850-0045	4	Washer, Lock - Spring (5/8")	19	870-0281	1	Nut, Self-locking - Hex Washer Head (3/8-16)	
6	132-0261	1	Pulley - Water Pump Drive	20	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")	
7	115-0025	4	Nut, Hex (1/4-28)	21	850-0050	1	Washer, Lock - Spring (3/8")	
8	850-0040	2	Washer, Lock - Spring (1/4")	22	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")	
9	526-0018	4	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)	23	850-0055	1	Washer, Lock - Spring (7/16")	
10	150-0638	2	Joint, Ball	24			Bracket, Mounting	
11	152-0243	1	Rod, Throttle				Used with Motorola Alternator	
12	821-0030	3	Screw, Self-locking - Hex Washer Head (3/8-16 x 1")		150-1521	1	Used with Bosch Alternator	
13	870-0281	3	Nut, Self-locking - Hex Washer Head (3/8-16)		191-2025	1	Spacer, Pulley	
14	151-0584	1	Governor		25	131-0353	1	
					26	151-0594	1	Spring, Governor - 50 Hz Only

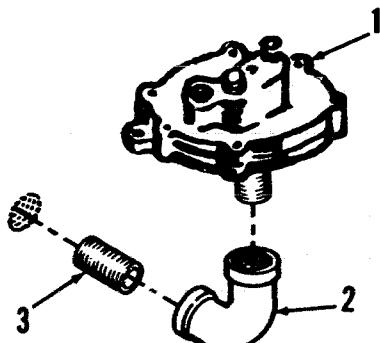
Engine Components - Left Side



Engine Components - Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-0942	1	Harness, Wiring - Engine Spec A	11	505-0104	1	Nipple, Pipe 1/8 NPT x 1-1/2"
	338-2460	1	Spec B		505-0061	1	1/8 NPT x 2"
2	193-0247	1	Sender, Temperature - Engine Coolant (E2)	12	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)
3	812-0075	1	Screw, Machine - Round Head (#8-32 x 1/4")	13	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
4	191-0773	1	Cover - Starter Mounting Hole	14	336-3124	1	Lead, Electrical (#2 AWG x 9"LG)
5	193-0244	1	Sender, Pressure - Oil (E1)	15	416-0021	1	Cable, Battery Positive (21"LG)
6	502-0058	1	Tee, Pipe - Street, Brass (1/8 NPT)		416-0672	1	Negative (29"LG)
7	309-0544	1	Switch, Pressure - Low Oil (S1)	16	800-0005	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
8	505-0059	1	Tee, Pipe (1/8 NPT)	17	850-0040	2	Washer, Lock - Spring (1/4")
9	309-0545	1	Switch, Pressure - Low Oil, Pre-Alarm (S6 - Spec A, S5 - Spec B)	18	862-0001	2	Nut, Hex (1/4-20)
10	505-0763	1	Cross, Pipe (1/8 NPT)	19	307-1031	1	Solenoid, Electrical - Start, 12 VDC (K6)

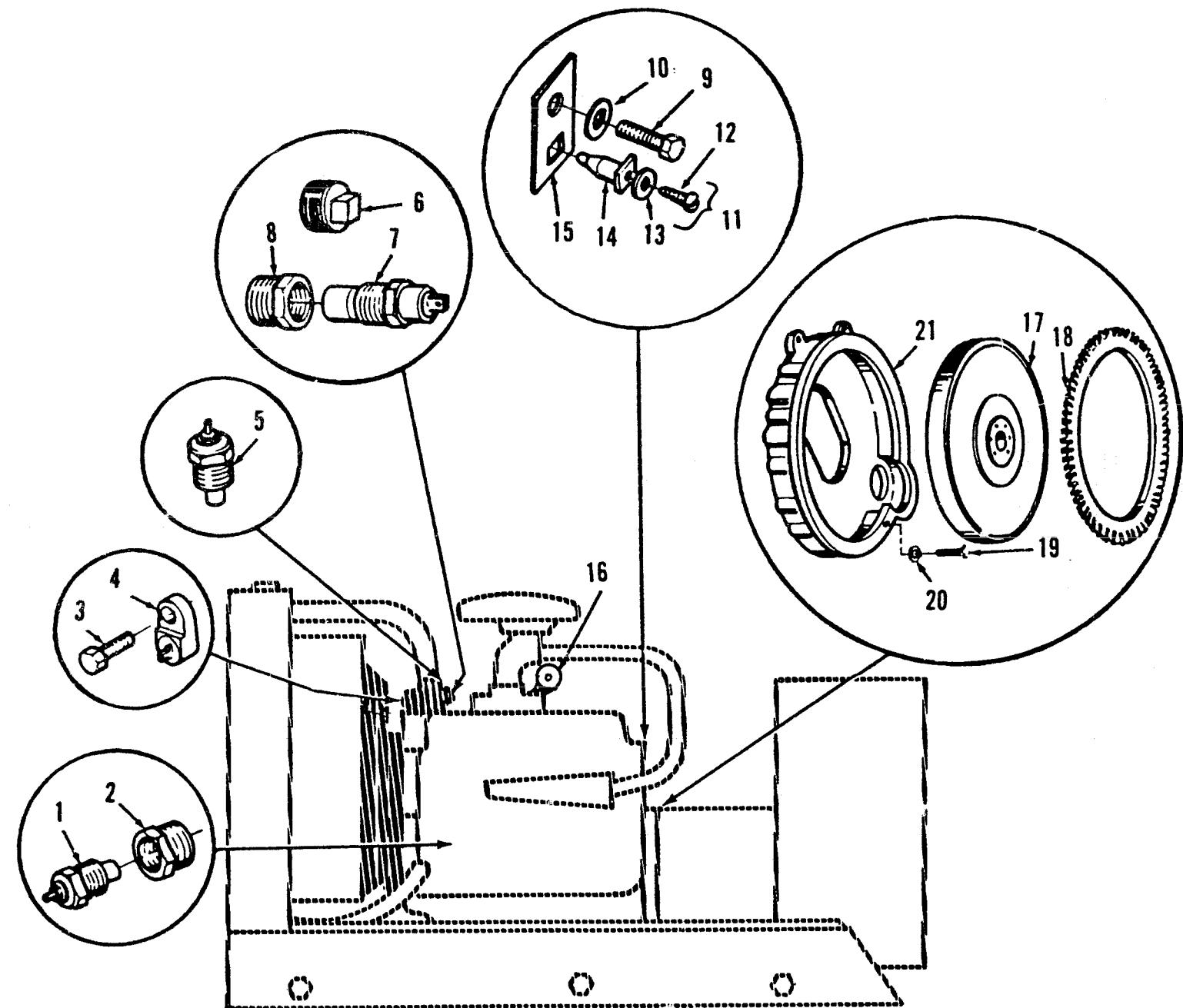
Vacuum Switch - Regulator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-0367	1	Switch, Vacuum - Regulator				
2	505-0039	1	Elbow (1/8 x 90")				
3	505-0101	1	Nipple, Close (3/8 NPT x 1")				

NOTE: To install Items 1, 2, & 3 - Remote plug in
Intake Manifold and discard.

Engine Components - Right Side

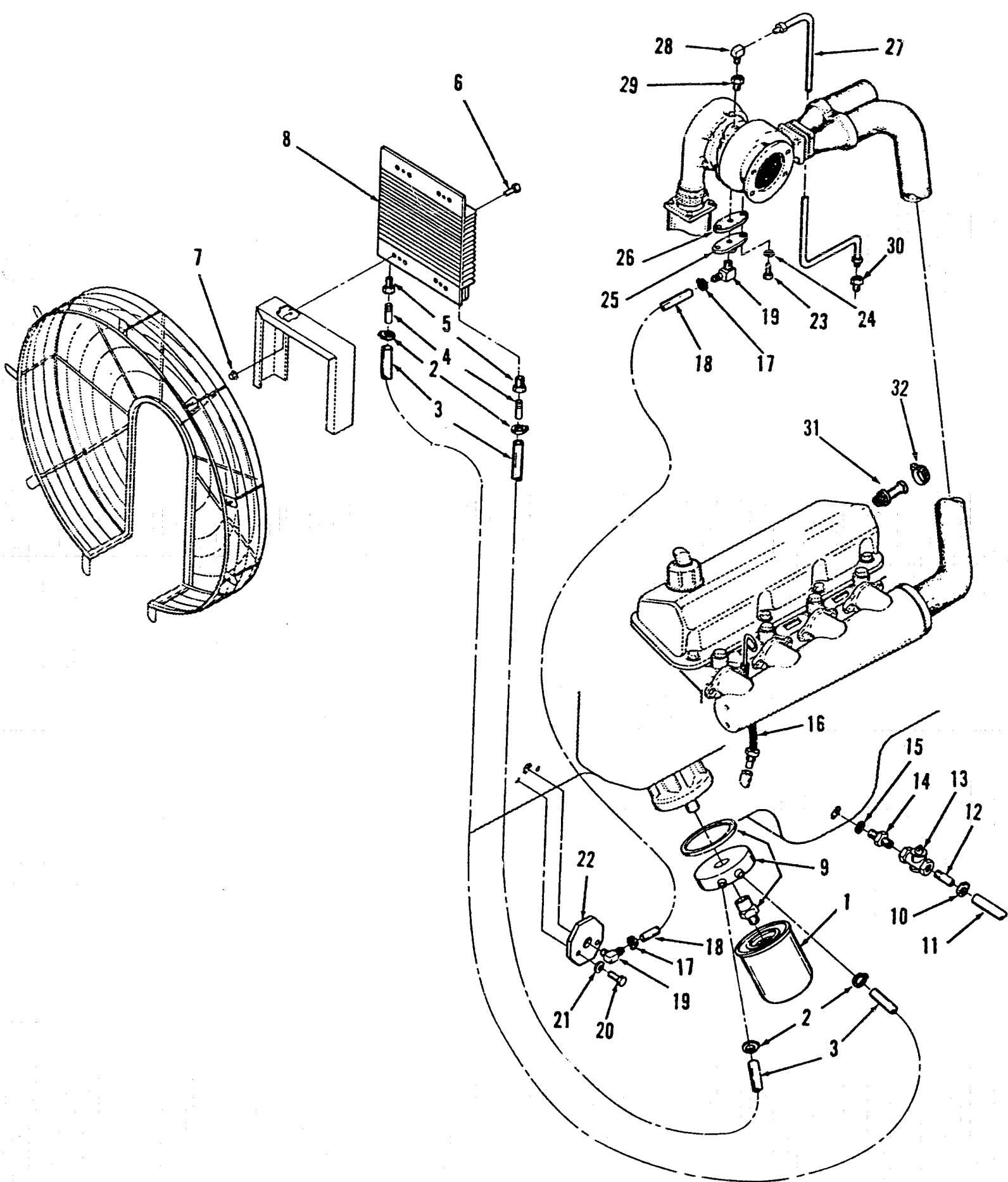


Engine Components - Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0249	1	Sender, Temperature - Oil (E5)	11	332-1292	1	Bracket Assembly, Terminal (Includes Parts Marked *)
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	12	809-0035	1	*Screw, Thread Cutting - Round Head (#8 x 3/4")
3	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")	13	508-0015	1	*Washer, Insulating - Fiber (#8)
4	309-0269	1	Switch, Thermostatic - Low Engine Temp (S5)	14	870-0196	1	*Nut, Insulating (#8)
5	309-0179	1	Switch, Thermostatic - Hi Engine Coolant Temp (S2)	15	332-1281	1	*Bracket, Mounting - Terminal
6	505-0130	1	Plug, Pipe - Square Head (3/4 NPT)	16	166-0278	1	Coil, Ignition (T1)
7	309-0178	1	Switch, Thermostatic - Hi Engine Coolant Temp - Pre-Alarm (S7 - Spec A, S6 - Spec B)	17	104-1097	1	Flywheel (Includes Ring Gear)
8	505-0499	1	Bushing, Reducer - Hex (3/4 NPT x 3/8 NPT)	18	104-0723	1	Gear, Ring
9	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")	19	800-0072	8	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
10	853-0016	1	Washer, Lock - EIT (5/16")	20	850-0055	8	Washer, Lock - Spring (7/16")
				21	231-0260	1	Adapter - Generator to Engine

* - Parts Included in 332-1292 Terminal Bracket Assembly.

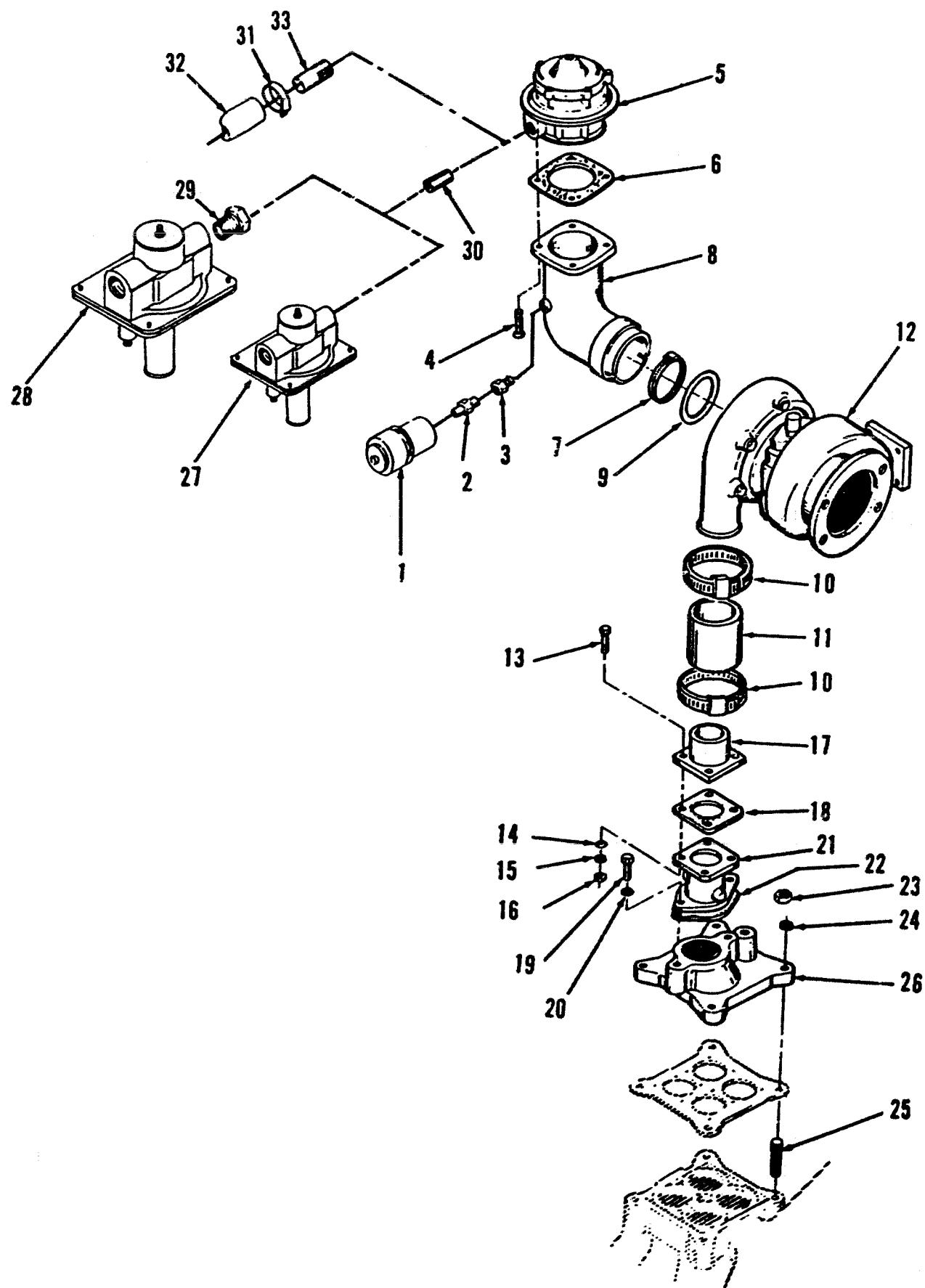
Lube Oil System



Lube Oil System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0193	1	Filter, Oil	16	123-1322	1	Tube - Oil Level Indicator
2	503-0446	4	Clamp, Hose	17	503-0547	2	Clamp, Hose
3	503-1099	2	Hose, Rubber (1/2"ID x 3/4"OD x 29"LG)	18	503-1097	1	Hose, Rubber (5/8"ID x 15/16"OD x 34"LG)
4	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")	19			Fitting Spec A
5	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)	502-0302		2	Elbow, Pipe - Used Through September, 1985
6	821-0016	3	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	505-0135		2	Nipple, Pipe - Half - Begin October, 1985
7	870-0257	3	Nut, Self-locking - Hex Washer Head (5/16-18)	505-0135		2	Spec B - Nipple, Pipe - Half
8	102-1113	1	Cooler, Oil	20	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
9	102-1097	1	Adapter Unit (Includes "O" Ring, Housing w/Thermostat and Female/Male Hex Adapter)	21	850-0045	2	Washer, Lock - Spring (5/16")
10	503-0131	1	Clamp, Hose	22	121-0036	1	Plate - Oil Return
11	503-0966	1	Hose, Rubber (5/8"ID x 7/8"OD x 30"LG)	23	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 7/8")
12	505-0135	1	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	24	850-0050	2	Washer, Lock - Spring (3/8")
13	504-0030	1	Valve, Cock (3/8 NPT)	25	145-0534	1	Flange - Oil Drain
14			Adapter, Pipe - Hex (1/2-20 UNF x 3/8 NPT)	26	145-0535	1	Gasket
			Spec A	27	121-0037	1	Line - Oil Inlet
	102-0652	1	Used Through July, 1986	28	502-0002	1	Elbow, Pipe - Street, 90°, Brass (1/8 NPT x 1/4" Tube)
	502-1013	1	Begin August, 1986	29	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)
	502-1013	1	Spec B	30	502-0003	1	Connector, Inverted Male
15			Gasket, Oil Drain	31	C4TZ 84500B	2	Cap, Tube - Heater Outlet (Ford #)
			Spec A	32	503-0183	2	Clamp, Hose
	102-0664	1	Used Through July, 1986				
	102-1320	1	Begin August, 1986				
	102-1320	1	Spec B				

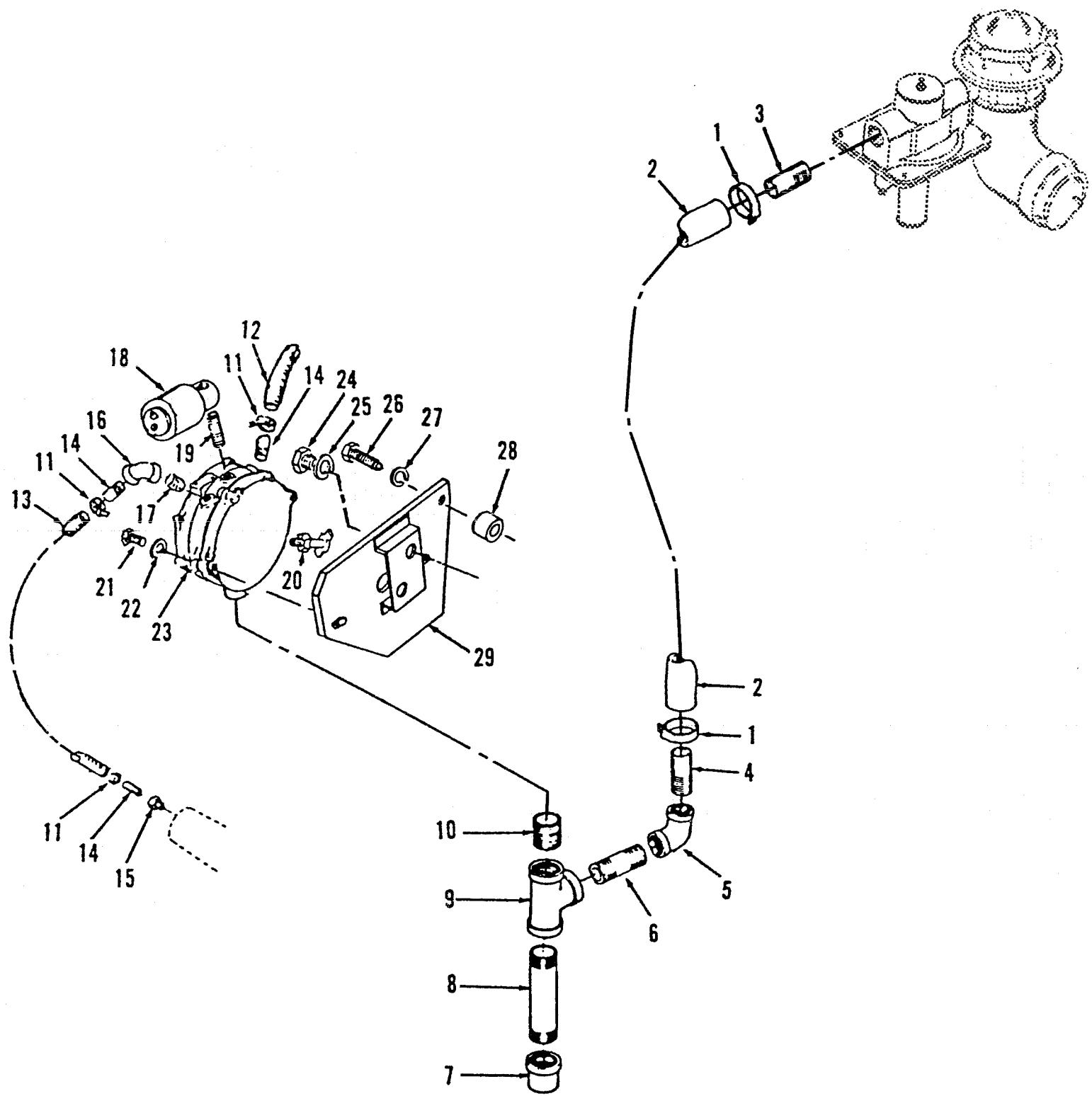
Fuel System
(LPG or Natural Gas)



**Fuel System
(LPG or Natural Gas)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	18	145-0540	1	Gasket
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	20	850-0050	2	Washer, Lock - Spring (3/8")
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	21	145-0538	1	Body - Carburetor
5	145-0532	1	Mixer - Air/Gas	22	148-0775	1	Gasket
6	145-0540	1	Gasket	23	110-0445	4	Nut, Hex (5/16-24)
7	503-0998	1	Clamp, Hose -- "T" Bar Type	24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)
8	145-0590	1	Elbow - Mixer to Turbocharger	25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")
9	509-0165	1	"O" Ring	26	145-0482	1	Adapter - Carburetor
10	503-0465	2	Clamp, Hose	27	148-0637	1	Regulator, Pressure - Gas
11	503-1172	1	Hose, Rubber (2-1/2"ID x 3"LG)	28	148-0601	1	Vapor (3/4 NPT) - LPG System
12			Turbocharger	29	505-0129	1	Regulator, Pressure - Gas
	145-0541	1	50 Hertz Sets	30	505-0102	1	Vapor (1 NPT) - Nat Gas
	145-0539	1	60 Hertz Sets	31	503-0398	2	System
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	32	503-0796	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	33	503-0324	1	Nipple, Pipe (3/4 NPT x 1-3/8")
15	850-0030	4	Washer, Lock - Spring (#10)			2	Clamp, Hose
16	870-0053	4	Nut, Hex (#10-32)			1	Hose
17	145-0528	1	Adapter - Throttle Unit			2	Nipple, Pipe - Half (3/4" x 2")

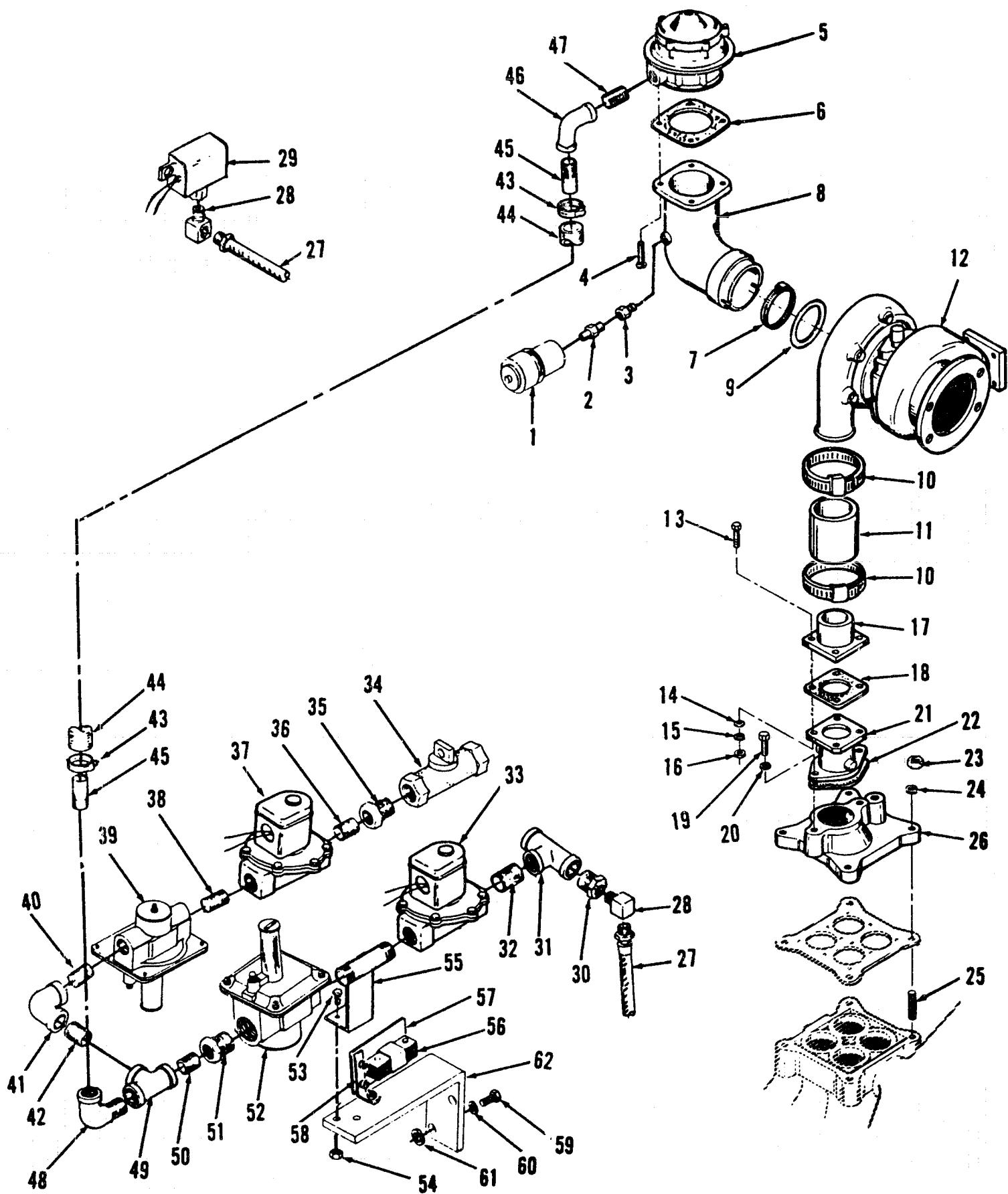
LPG Gas Conversion Components



LPG Gas Conversion Components

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0398	2	Clamp, Hose	16	505-0039	1	Elbow, Pipe - 90° (3/8 NPT)
2	503-0799	1	Hose, Rubber (1"ID x 1-3/8"OD x 30"LG)	17	505-0101	1	Nipple, Pipe (3/8 NPT x 1")
3	505-0102	1	Nipple, Pipe - Half (3/4 NPT)	18	307-0268	1	Valve, Solenoid - 12 VDC (1/4 NPT)
4	505-0324	1	Nipple, Pipe - Half (3/4 NPT x 2")	19	505-0099	1	Nipple, Pipe (1/4 NPT x 7/8")
5	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)	20	504-0005	1	Cock, Drain (1/4 NPT)
6	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")	21	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
7	505-0479	1	Cap, Pipe (1 NPT)	22	850-0040	2	Washer, Lock - Spring (1/4")
8	505-0331	1	Nipple, Pipe (1 NPT x 4"LG)	23	148-0625	1	Converter, Gas - LPG
9	505-0661	1	Tee, Pipe - Reducing (1 NPT x 3/4 NPT x 1 NPT)	24	800-0069	2	Screw, Cap - Hex Head (7/8-14 x 3/4")
10	505-0004	1	Nipple, Pipe (1 NPT x 1-1/2")	25	850-0055	2	Washer, Lock - Spring (7/8")
11	503-0183	3	Clamp, Hose	26	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
12	503-0833	1	Hose, Rubber (5/8"ID x 24"LG)	27	850-0050	1	Washer, Lock - Spring (3/8")
13	503-0261	1	Hose, Rubber (5/8"ID x 8-1/2"LG)	28	148-0776	1	Spacer, Sleeve
14	505-0135	3	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	29	148-0773	1	Bracket, Mounting - Converter
15	505-0019	1	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)				

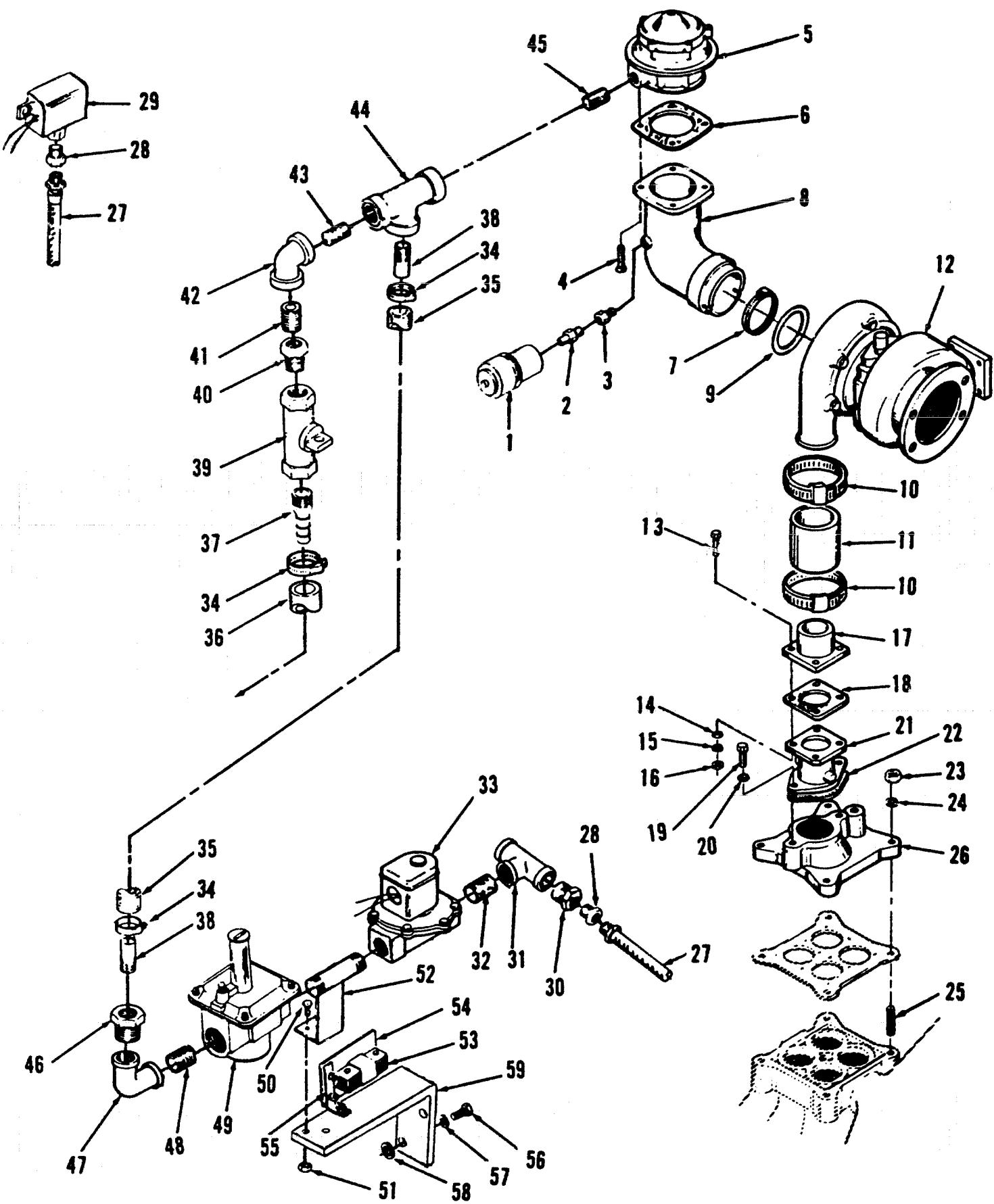
Dual Fuel System
(LPG Vapor-Natural Gas)
(Automatic/Manual Changeover)



Dual Fuel System
(LPG Vapor-Natural Gas)
(Automatic/Manual Changeover)

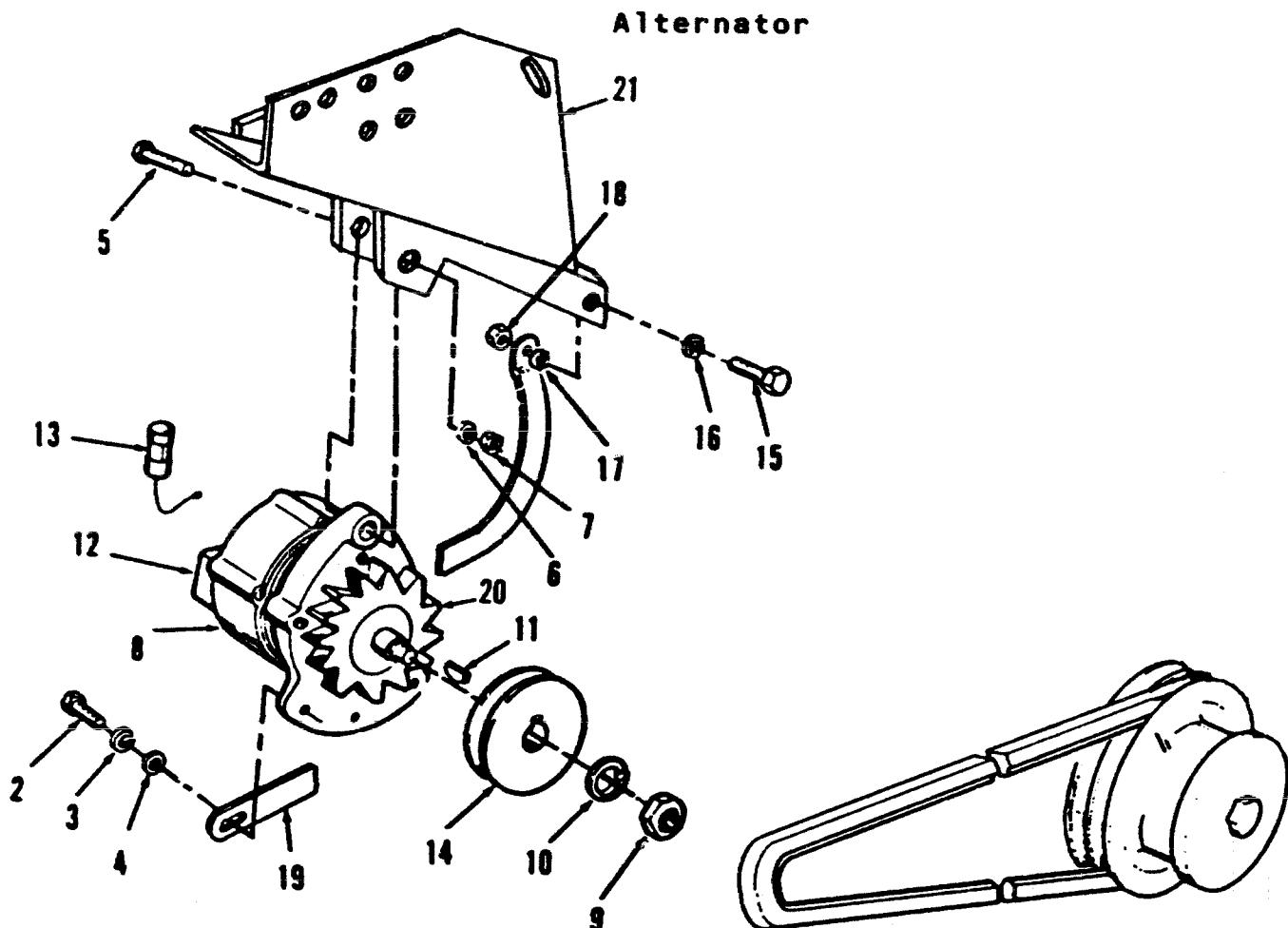
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	32	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/2") - Nat. Gas System
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	33	307-0836	1	Valve, Solenoid - 12 VDC (1 NPT) - Nat. Gas System
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	34	148-0626	1	Valve, Control (1 NPT) - LPG System
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	35	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
5	145-0532	1	Mixer - Air/Gas	36	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
6	145-0540	1	Gasket	37	307-0834	1	Valve, Solenoid - 12 VDC (3/4 NPT) - LPG System
7	503-0998	1	Clamp, Hose - "T" Bar Type	38	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
8	145-0590	1	Elbow - Mixer to Turbocharger	39	148-0637	1	Regulator, Pressure - Gas Vapor (3/4 NPT) - LPG System
9	509-0165	1	"O" Ring	40	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")
10	503-0465	2	Clamp, Hose	41	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)
11	503-1172	1	Hose, Rubber (2-1/2" ID x 3"LG)	42	505-0084	1	Nipple, Pipe (3/4 NPT x 2-1/2")
12			Turbocharger	43	503-0429	2	Clamp, Hose
	145-0541	1	50 Hertz Sets	44	503-1201	1	Hose, Rubber (1"ID x 1-3/8"00 x 12"LG)
	145-0539	1	60 Hertz Sets	45	505-0324	2	Nipple, Pipe - Half (3/4 NPT)
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	46	505-0132	1	Elbow, Pipe - 90° (3/4 NPT)
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	47	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
15	850-0030	4	Washer, Lock - Spring (#10)	48	505-0051	1	Elbow, Pipe - Street, 90° (3/4 NPT)
16	870-0053	4	Nut, Hex (#10-32)	49	505-0166	1	Tee, Pipe (3/4 NPT)
17	145-0528	1	Adapter - Throttle Unit	50	505-0102	1	Nipple, Pipe (3/4 NPT x 1-3/8")
18	145-0540	1	Gasket	51	505-0129	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	52	148-0601	1	Regulator, Pressure - Gas Vapor (1 NPT) - Nat. Gas System
20	850-0050	2	Washer, Lock - Spring (3/8")	53	821-0013	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1")
21	145-0538	1	Body - Carburetor	54	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
22	148-0775	1	Gasket	55	130-0797	1	Nipple, Pipe with Bracket (1 NPT)
23	110-0445	4	Nut, Hex (5/16-24)	56	308-0005	1	Switch, Toggle - Manual System
24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	57	308-0150	1	Bracket, Mounting - Switch - Manual System
25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")	58	306-0155	1	Bracket, Mounting - Manual System
26	145-0482	1	Adapter - Carburetor	59	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
27	501-0010	1	Line, Fuel - Flexible - Auto System	60	850-0050	2	Washer, Lock - Spring (3/8")
28	502-0041	2	Elbow, Pipe - Inverted Male, 90° - Auto System	61	526-0174	2	Washer, Flat (3/8")
29	148-0627	1	Switch, Pressure - 12 VDC - Auto System	62	148-0869	1	Bracket, Mounting
30	505-0020	1	Bushing, Reducer - Hex (3/4 NPT x 1/4 NPT) - Auto System				
31	505-1345	1	Tee, Pipe - Reducing (1 NPT x 1 NPT x 3/4 NPT) - Auto System				

Dual Fuel System
(LPG Liquid-Natural Gas)
(Automatic/Manual Changeover)



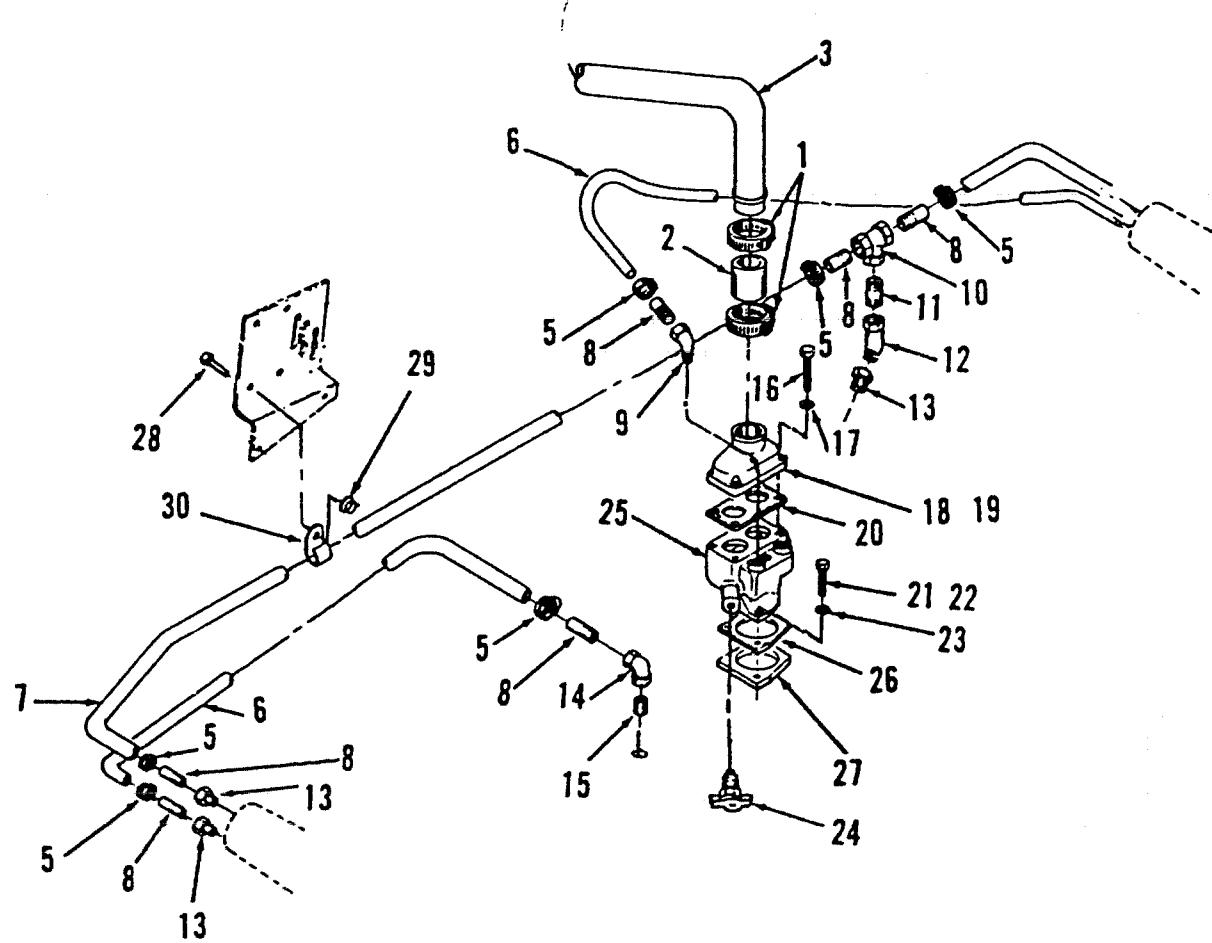
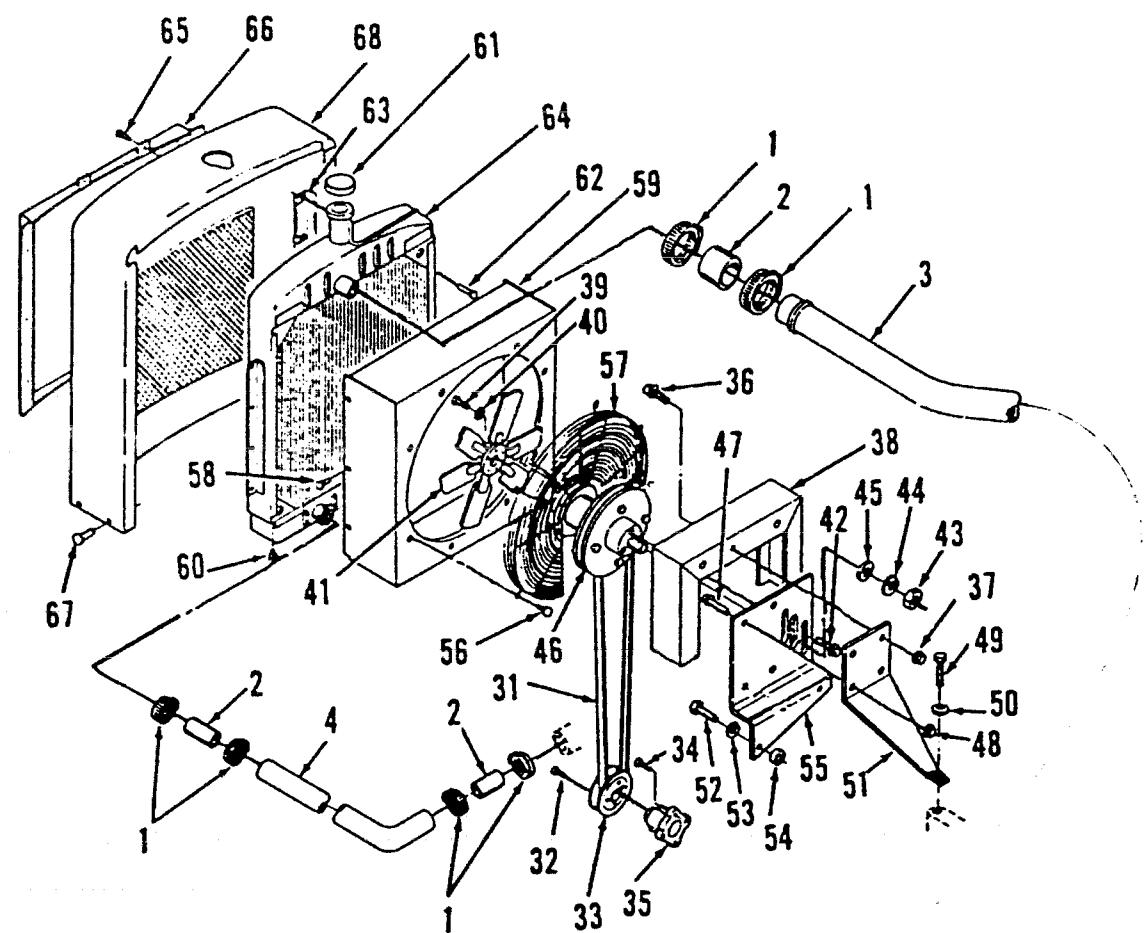
Dual Fuel System
(LPG Liquid-Natural Gas)
(Automatic/Manual Changeover)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-0961	1	Indicator - Air Service	32	505-0004	1	Nipple, Pipe - Close (1 NPT
2	140-1260	1	Fitting with Restrictor - Hex (1/8 NPT)	33	307-0836	1	x 1-1/2") - Nat. Gas System
3	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	34	503-0398	3	Valve, Solenoid - 12 VDC (1 NPT) - Nat. Gas System
4	NFS	4	Screw, Machine - Fillister Head with Lockwasher (#12-24 x 5/8")	35	503-0792	1	Clamp, Hose
5	145-0532	1	Mixer - Air/Gas	36	503-0799	1	Hose, Rubber (1"ID x 1-3/8"OD x 12-1/2"LG) - Nat. Gas System
6	145-0540	1	Gasket	37	505-0759	1	Hose, Rubber (1"ID x 1-3/8"OD x 30"LG)
7	503-0998	1	Clamp, Hose - "T" Bar Type	38	505-0324	2	Adapter, Pipe to Hose (1 NPT x 1"ID Hose)
8	145-0590	1	Elbow - Mixer to Turbocharger	39	148-0626	1	Nipple, Pipe - Half (3/4 NPT)
9	509-0165	1	"O" Ring	40	505-0129	1	Valve, Control (1 NPT) - LPG System
10	503-0465	2	Clamp, Hose	41	505-0102	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
11	503-1172	1	Hose, Rubber (2-1/2" ID x 3"LG)	42	505-0132	1	Nipple, Pipe (3/4 NPT x 1-3/8")
12			Turbocharger	43	505-0102	1	Elbow, Pipe - 90° (3/4 NPT)
	145-0541	1	50 Hertz Sets	44	505-0166	1	Nipple, Pipe (3/4 NPT x 1-3/8")
	145-0539	1	60 Hertz Sets	45	505-0102	1	Tee, Pipe (3/4 NPT)
13	813-0103	4	Screw, Machine - Round Head (#10-32 x 3/4")	46	505-0129	1	Nipple, Pipe (3/4 NPT x 1-3/8")
14	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	47	505-0041	1	Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
15	850-0030	4	Washer, Lock - Spring (#10)	48	505-0004	1	Elbow, Pipe - 90° (1 NPT)
16	870-0053	4	Nut, Hex (#10-32)	49	148-0601	1	Nipple, Pipe - Close (1 NPT x 1-1/2")
17	145-0528	1	Adapter - Throttle Unit	50	821-0013	2	Regulator, Pressure - Gas Vapor (1 NPT) - Nat. Gas System
18	145-0540	1	Gasket	51	870-0212	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1")
19	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")	52	130-0797	1	Nut, Self-locking - Hex Washer Head (1/4-20)
20	850-0050	2	Washer, Lock - Spring (3/8")	53	308-0005	1	Nipple, Pipe with Bracket (1 NPT)
21	145-0538	1	Body - Carburetor	54	308-0150	1	Switch, Toggle - Manual System
22	148-0775	1	Gasket	55	306-0155	1	Bracket, Mounting - Switch - Manual System
23	110-0445	4	Nut, Hex (5/16-24)	56	800-0051	2	Bracket, Mounting - Manual System
24	526-0065	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	57	850-0050	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
25	520-0011	4	Stud (5/16-18 x 5/16-24 x 1-7/8")	58	526-0174	2	Washer, Lock - Spring (3/8")
26	145-0482	1	Adapter - Carburetor	59	148-0869	1	Washer, Flat (3/8")
27	501-0011	1	Line, Fuel - Flexible - Auto System				Bracket, Mounting
28	502-0033	2	Connector, Line - Inverted Male - Auto System				
29	148-0627	1	Switch, Pressure - 12 VDC - Auto System				
30	505-0020	1	Bushing, Reducer - Hex (3/4 NPT x 1/4 NPT) - Auto System				
31	505-1345	1	Tee, Pipe - Reducing (1 NPT x 1 NPT x 3/4 NPT) - Auto System				



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0131	1	Belt, Drive - V Used with both Motorola and Bosch Alternator on Mechanical Governor	8	191-1388	1	Alternator - 12 VDC (Includes Parts Marked *)
	511-0092	1	Used with Motorola Alternator and Electrical Governor	191-1982-01	1	Motorola Bosch (Does Not Include Fan)	
	511-0156	1	Used with Bosch Alternator and Electrical Governor	9	868-0007	1	*Nut, Hex (5/8-18)
2	800-0027	1	Screw, Cap - Hex Head Used with Motorola Alternator (5/16-18 x 7/8")	10	850-0070	1	*Washer, Lock - Spring (5/8")
	800-2058	1	Used with Bosch Alternator (M8 x 1-1/4 x 25)	11	515-0093	1	*Key, Woodruff (#5)
3	850-0045	1	Washer, Lock - Spring Used with Motorola Alternator (5/16")	12	191-1390	1	*Regulator, Voltage
	850-2008	1	Used with Bosch Alternator (M8)	13	312-0201	1	*Capacitor Pulley
4	526-0115	1	Washer, Flat Used with Motorola Alternator (11/32" ID x 11/16" OD x 1/16" Thk)	14	191-1099	1	Spec A and B (Used with Motorola Alternator)
	526-2106	1	Used with Bosch Alternator (M8)	191-1982	1	Spec C (Used with Bosch Alternator)	
5	800-0095	1	Screw, Cap - Hex Head Used with Motorola Alternator (1/2-13 x 2-1/2")	15	800-0029	1	Screw, Cap - Hex Head (5/16-18 x 1-1/8")
	800-2097	1	Used with Bosch Alternator (M10 x 1-1/2 x 80)	16	850-0045	1	Washer, Lock - Spring (5/16")
6	850-0065	1	Washer, Lock - Spring (1/2")	17	191-0864	1	Spacer
7	862-0005	1	Nut, Hex Used with Motorola Alternator (1/2-13)	18	862-0015	1	Nut, Hex (5/16-18)
	870-2056	1	Used with Bosch Alternator (Self-Locking M10 x 1-1/2")	19	191-1203	1	Arm, Adjusting
				20	191-1981	1	Fan (Bosch Alternator) Bracket, Mounting
				21	191-1564	1	Used with Motorola Alternator and Electric Governor
					150-1521	1	Used with Motorola Alternator and Mechanical Governor
					191-2026	1	Used with Bosch Alternator and Electric Governor
					191-2025	1	Used with Bosch Alternator and Mechanical Governor
							* - Parts Included With 191-1388 Alternator.

**Cooling System
(Radiator)**

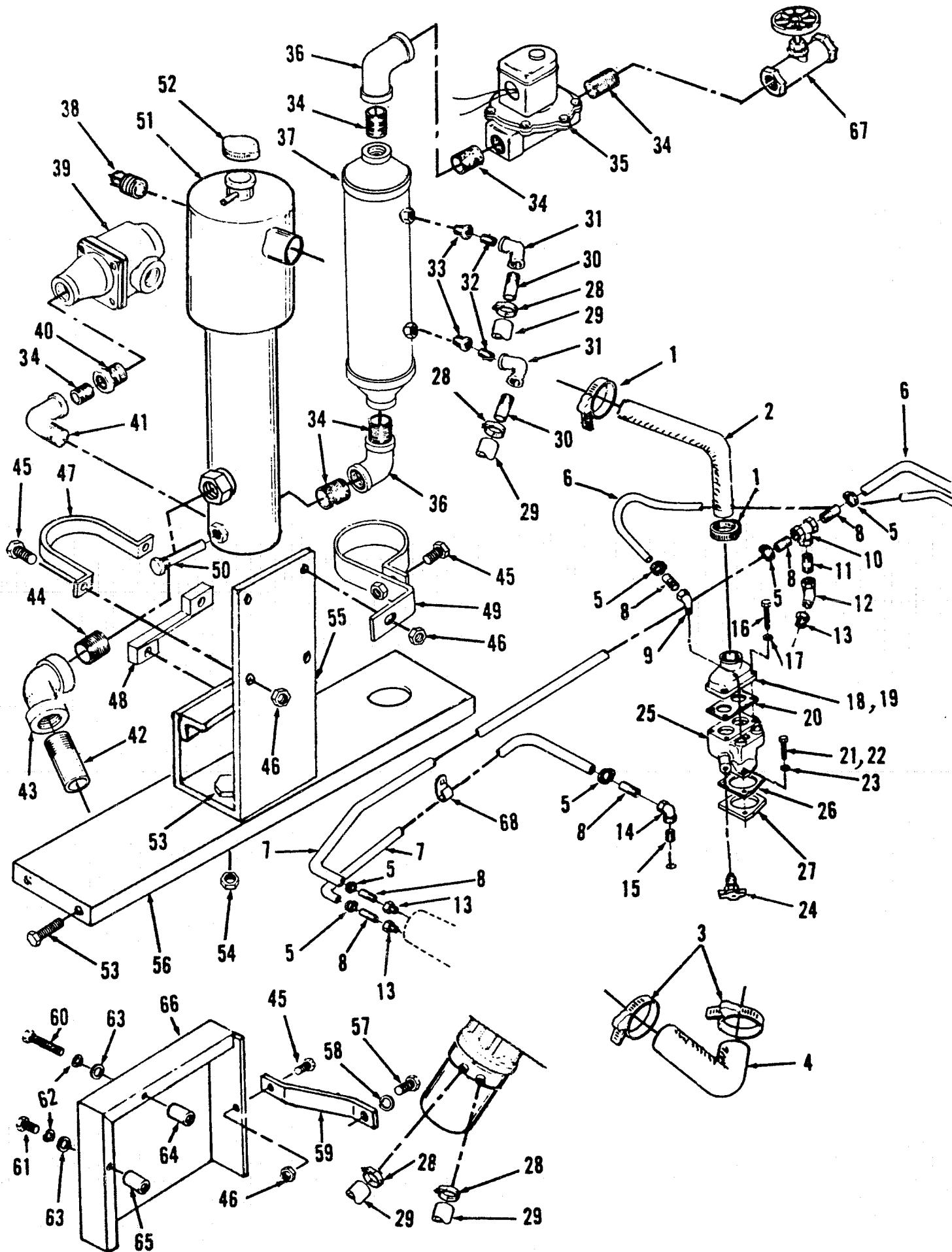


**Cooling System
(Radiator)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	8	Clamp, Hose	40	526-0122	6	Washer, Flat (11/32"ID x 23/32"OD x 1/8"THK)
2	503-0571	4	Hose, Rubber (2"ID x 2-3/8"OD x 2"LG)	41	130-1997	1	Fan
3	130-1998	1	Tube, Coolant - Upper	42	821-0016	2	Screw, Self-locking - Hex
4	130-1999	1	Tube, Coolant - Lower	43	862-0016	1	Washer Head (5/16-18 x 3/4")
5	503-0183	8	Clamp, Hose	44	850-0060	1	Nut, Hex (1/2-13)
6	503-0833	3	Hose, Rubber (5/8"ID x 24"LG)	45	526-0035	1	Washer, Lock - Spring (1/2")
7	503-1168	1	Hose, Rubber (5/8"ID x 36"LG)	46	130-0981	1	Washer, Flat (17/32"ID x 7/8"OD x 1/8"THK)
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")				Hub & Pulley Assembly (Includes the following non-illustrated replaceable parts marked *)
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)				* Screw, Self-locking - Hex
10	505-0060	1	Tee, Pipe (3/8 NPT)	821-0010		4	Washer Head (1/4-20 x 1/2")
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")		512-0059	1	* Pulley
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)		518-0342	2	* Clip, Retaining
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)		130-0972	1	* Collar
14	505-0039	1	Elbow, Pipe - 90° (3/8 NPT)		130-0970	1	* Bearing
15	505-0101	1	Nipple, Pipe - Close (3/8 NPT x 1")		130-0969	1	* Hub
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	47	821-0016	2	Screw, Self-locking - Hex
17	850-0045	4	Washer, Lock - Spring (5/16")	48	870-0048	2	Washer Head (5/16-18 x 3/4")
18	309-0477	1	Cover - Thermostat Housing	49	800-0048	1	Nut, Self-locking - Hex
19	309-0476	2	Thermostat	50	850-0050	1	Washer Head (5/16-18)
20	309-0479	1	Gasket	51	130-0973	1	Screw, Cap - Hex Head
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	52	800-0051	1	(3/8-16 x 3/4")
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	53	850-0050	1	Washer, Lock - Spring (3/8")
23	850-0045	3	Washer, Lock - Spring (5/16")	54	191-0864	1	Spacer
24	504-0005	1	Cock, Drain (1/8 NPT)	55	130-0971	1	Bracket, Mounting - Fan Drive
25	309-0480	1	Base - Thermostat Housing	56	821-0010	8	Screw, Self-locking - Hex
26	130-1024	2	Gasket				Washer Head (1/4-20 x 1/2")
27	130-2000	1	Spacer	57	130-0986	1	Guard, Fan
28	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	58	815-0181	12	Screw, Tapping - Hex Head
29	870-0133	1	Nut, Self-locking - Hex				with ET Lockwasher (#10-32 x 1/2")
			Washer Head (3/8-16)	59	130-1985	1	Shroud, Fan
30	148-0274	2	Bracket, "J"	60	504-0003	1	Cock, Drain (1/4 NPT)
31	511-0084	1	Belt, Drive	61	130-2128	1	Cap, Radiator
32	821-0010	4	Screw, Self-locking - Hex	62	821-0014	6	Screw, Self-locking - Hex
			Washer Head (1/4-20 x 1/2")				Washer Head (5/16-18 x 1/2")
33	512-0136	1	Pulley	63	870-0113	6	Nut, Retainer (5/16-18)
34	800-0055	4	Screw, Cap - Hex Head (3/8-16 x 2-1/4")	64	130-1996	1	Radiator
35	130-0968	1	Adapter - Drive Pulley	65	815-0181	10	Screw, Cap - Hex Head with ET
36	821-0016	2	Screw, Self-locking - Hex	66	405-2870	1	Lockwasher (#10-32 x 1/2")
			Washer Head (5/16-18 x 3/4")	67	821-0014	8	Flange - Air Duct
37	870-0048	2	Nut, Self-locking - Hex				Screw, Self-locking - Hex
			Washer Head (5/16-18)	68	405-2869	1	Washer Head (5/16-18 x 1/2")
38	130-0989	1	Guard, Belt				Panel, Housing - Front
39	821-0016	6	Screw, Self-locking - Hex				
			Washer Head (5/16-18 x 3/4")				

* - Parts Included in 130-0981 Hub & Pulley Assembly.

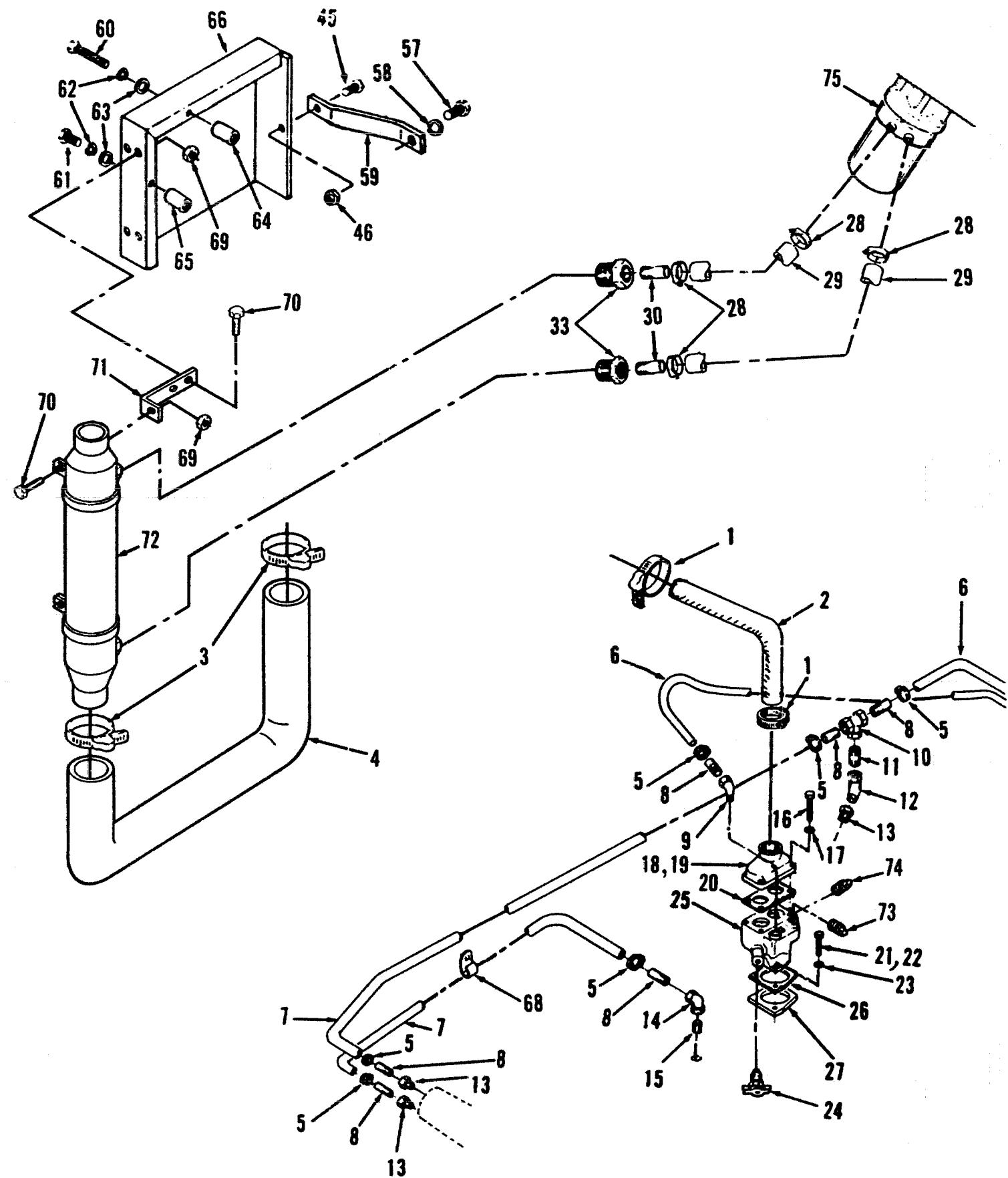
**Cooling System
(Heat Exchanger)**



**Cooling System
(Heat Exchanger)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	2	Clamp, Hose	37	102-1114	1	Cooler, Oil
2	503-0846	1	Hose, Rubber - Lower (2"ID x 2-3/8"OD x 20"LG)	38	505-0130	1	Plug, Pipe (3/4 NPT)
3	503-0274	2	Clamp, Hose	39	505-1301	1	#Valve, Control - Temperature Regulating (1 NPT)
4	503-0753	1	Hose, Rubber - Upper (2"ID x 2-3/8"OD x 24"LG)	40	505-0129	1	#Bushing, Reducer - Hex (1 NPT x 3/4 NPT)
5	503-0183	8	Clamp, Hose	41	505-0051	1	#Elbow, Pipe - Street, 90° (3/4 NPT)
6	503-0833	2	Hose, Rubber (5/8"ID x 24"LG)	42	505-0385	1	Nipple, Pipe - Half (1-1/2 NPT x 2")
7	503-1168	2	Hose, Rubber (5/8"ID x 36"LG)	43	505-0043	1	Elbow, Pipe - 90° (1-1/2 NPT)
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	44	505-0109	1	Nipple, Pipe (1-1/2 NPT x 2-1/2")
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)	45	821-0011	7	Screw, Self-locking - Hex
10	505-0060	1	Tee, Pipe (3/8 NPT)	46	870-0212	7	Washer Head (1/4-20 x 7/8")
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")	47	130-0802	2	Nut, Self-locking - Hex
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)	48	130-1112	1	Washer Head (1/4-20)
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)	49	102-1159	1	Strap, Holddown - Heat Exchanger
14	505-0039	3	Elbow, Pipe - 90° (3/8 NPT)	50	130-1340	1	Strap, Support
15	505-0101	3	Nipple, Pipe - Close (3/8 NPT x 1")	51	130-2162	1	Support - Oil Cooler
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	52	130-0661	1	Pencil, Zinc (3/8 NPT)
17	850-0045	4	Washer, Lock - Spring (5/16")	53	821-0016	8	Heat Exchanger (Includes Cap)
18	309-0477	1	Cover - Thermostat Housing	54	870-0048	3	Cap, Heat Exchanger (7 LB PSI)
19	309-0476	2	Thermostat	55	130-1110	1	Screw, Self-locking - Hex
20	309-0479	1	Gasket	56	130-0805	1	Washer Head (5/16-18)
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	57	800-0069	1	Bracket, Mounting
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	58	850-0055	1	Bracket, Mounting - Heat Exchanger
23	850-0045	3	Washer, Lock - Spring (5/16")	59	130-2245	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
24	504-0005	1	Cock, Drain (1/8 NPT)	60	800-0056	1	Washer, Lock - Spring (7/16")
25	309-0480	1	Base - Thermostat Housing	61	800-0051	1	Strap
26	130-1024	2	Gasket	62	850-0050	2	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
27	130-2000	1	Spacer	63	526-0174	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
28	503-0446	4	Clamp, Hose	64	130-2243	1	Washer, Lock - Spring (3/8")
29	503-1099	2	Hose, Rubber (1/2"ID x 7/8"OD x 29"LG)	65	130-2244	1	Washer, Flat (3/8")
30	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")	66	130-1050	1	Spacer, Sleeve
31	505-0038	2	Elbow, Pipe - 90° (1/4 NPT)	67	504-0046	1	Spacer, Sleeve
32	505-0099	2	Nipple, Pipe - Close (1/4 NPT x 7/8")	68	148-0274	2	Guard, Belt
33	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)				*Valve, Globe (3/4 NPT)
34	505-0102	6	Nipple, Pipe (3/4 NPT x 1-3/8")				Bracket, "J"
35	307-0835	1	Valve, Solenoid - 12 VDC (3/4 NPT)				# - Parts used on Non-Regulated Systems.
36	505-0132	2	Elbow, Pipe - 90° (3/4 NPT)				# - Parts used on Regulated Systems.

Cooling System (Remote Radiator)

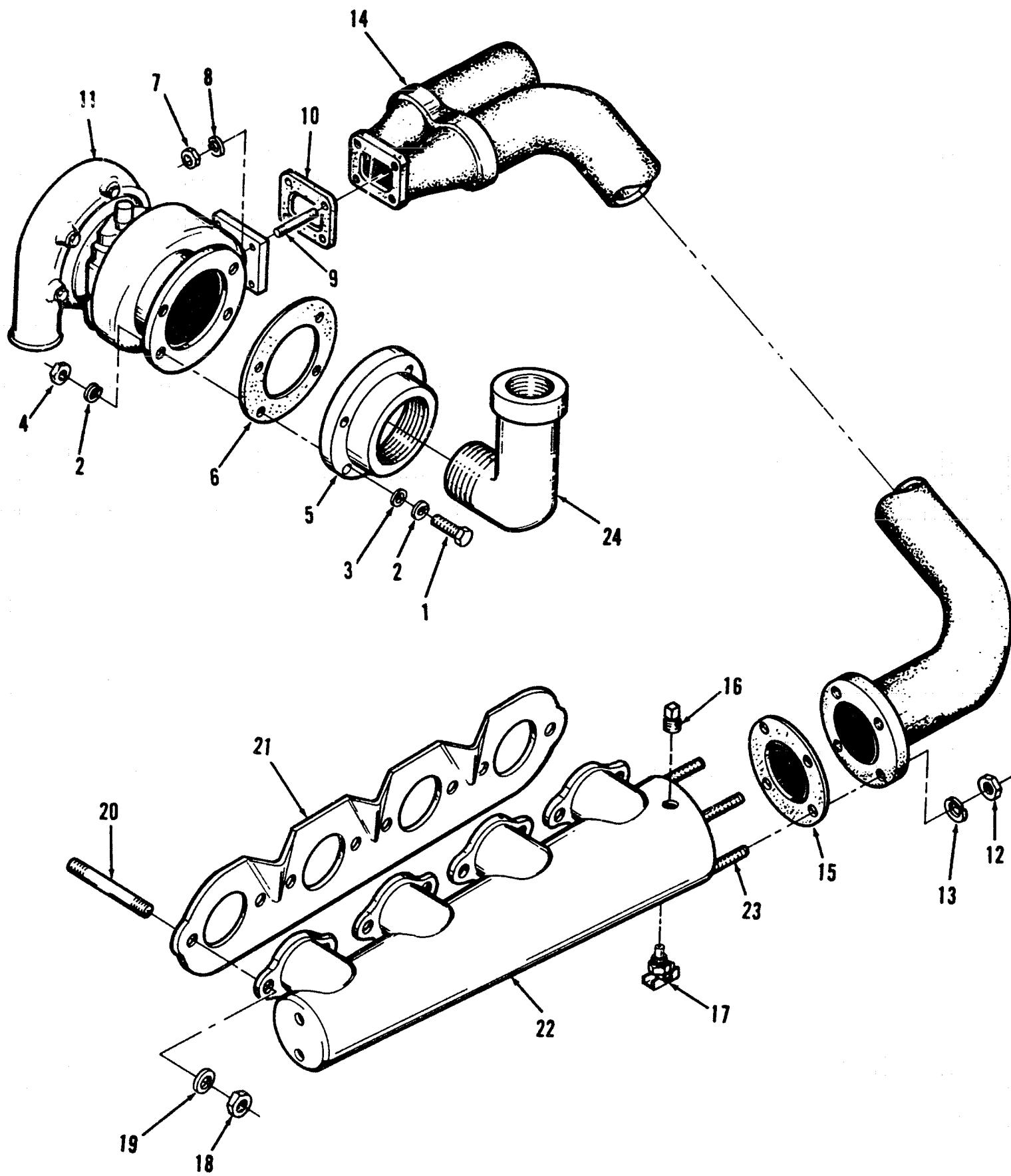


**Cooling System
(Remote Radiator)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	2	Clamp, Hose	29	503-1099	2	Hose, Rubber (1/2"ID x 7/8"OD x 29"LG)
2	503-0753	1	Hose, Rubber - Lower (2"ID x 2-3/8"OD x 24"LG)	30	505-0302	2	Nipple, Pipe - Half (1/4 NPT x 1-1/2")
3	503-0274	2	Clamp, Hose	33	505-0018	2	Bushing, Reducer - Hex (1/2 NPT x 1/4 NPT)
4	503-0753	1	Hose, Rubber - Upper (2"ID x 2-3/8"OD x 24"LG)	45	821-0011	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 7/8")
5	503-0183	8	Clamp, Hose	46	870-0212	7	Nut, Self-locking - Hex Washer Head (1/4-20)
6	503-0833	2	Hose, Rubber (5/8"ID x 24"LG)	57	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
7	503-1168	2	Hose, Rubber (5/8"ID x 36"LG)	58	850-0055	1	Washer, Lock - Spring (7/16")
8	505-0135	8	Nipple, Pipe - Half (3/8 NPT x 1-1/2")	59	130-2245	1	Strap
9	505-0120	1	Elbow, Pipe - Street, 90° (3/8 NPT)	60	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
10	505-0060	1	Tee, Pipe (3/8 NPT)	61	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
11	505-0075	1	Nipple, Pipe (3/8 NPT x 2-1/2")	62	850-0050	2	Washer, Lock - Spring (3/8")
12	505-0119	1	Elbow, Pipe - Street, 45° (3/8 NPT)	63	526-0174	2	Washer, Flat (3/8")
13	505-0019	5	Bushing, Reducer - Hex (1/2 NPT x 3/8 NPT)	64	130-2243	1	Spacer, Sleeve
14	505-0039	3	Elbow, Pipe - 90° (3/8 NPT)	65	130-2244	1	Spacer, Sleeve
15	505-0101	3	Nipple, Pipe - Close (3/8 NPT x 1")	66	130-1050	1	Guard, Belt
16	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	68	148-0274	2	Bracket, "J"
17	850-0045	4	Washer, Lock - Spring (5/16")	69	870-0281	6	*Nut, Hex - Self-locking (3/8-16)
18	309-0477	1	Cover - Thermostat Housing	70	821-0029	6	*Screw, Cap - Hex Head (3/8-16 x 3/4")
19	309-0476	2	Thermostat	71	102-1244	2	*Bracket, Mounting - Oil Cooler
20	309-0479	1	Gasket	72	102-1238	1	*Cooler, Oil (Includes Two Mounting Clamps)
21	800-0040	1	Screw, Cap - Hex Head (5/16-18 x 3-3/4")	73	505-0110	1	Plug, Pipe - Square Head (3/8")
22	800-0029	2	Screw, Cap - Hex Head (5/16-18 x 1-1/8")	74	505-0013	1	Plug, Pipe - Square Head (1/2")
23	850-0045	3	Washer, Lock - Spring (5/16")	75	102-1097	1	Adapter, Oil Cooler (Includes "O" Ring and Hex Adapter)
24	504-0005	1	Cock, Drain (1/8 NPT)				
25	309-0480	1	Base - Thermostat Housing				
26	130-1024	2	Gasket				
27	130-2000	1	Spacer				
28	503-0446	4	Clamp, Hose				

* - Use Began During April, 1986 During Spec A

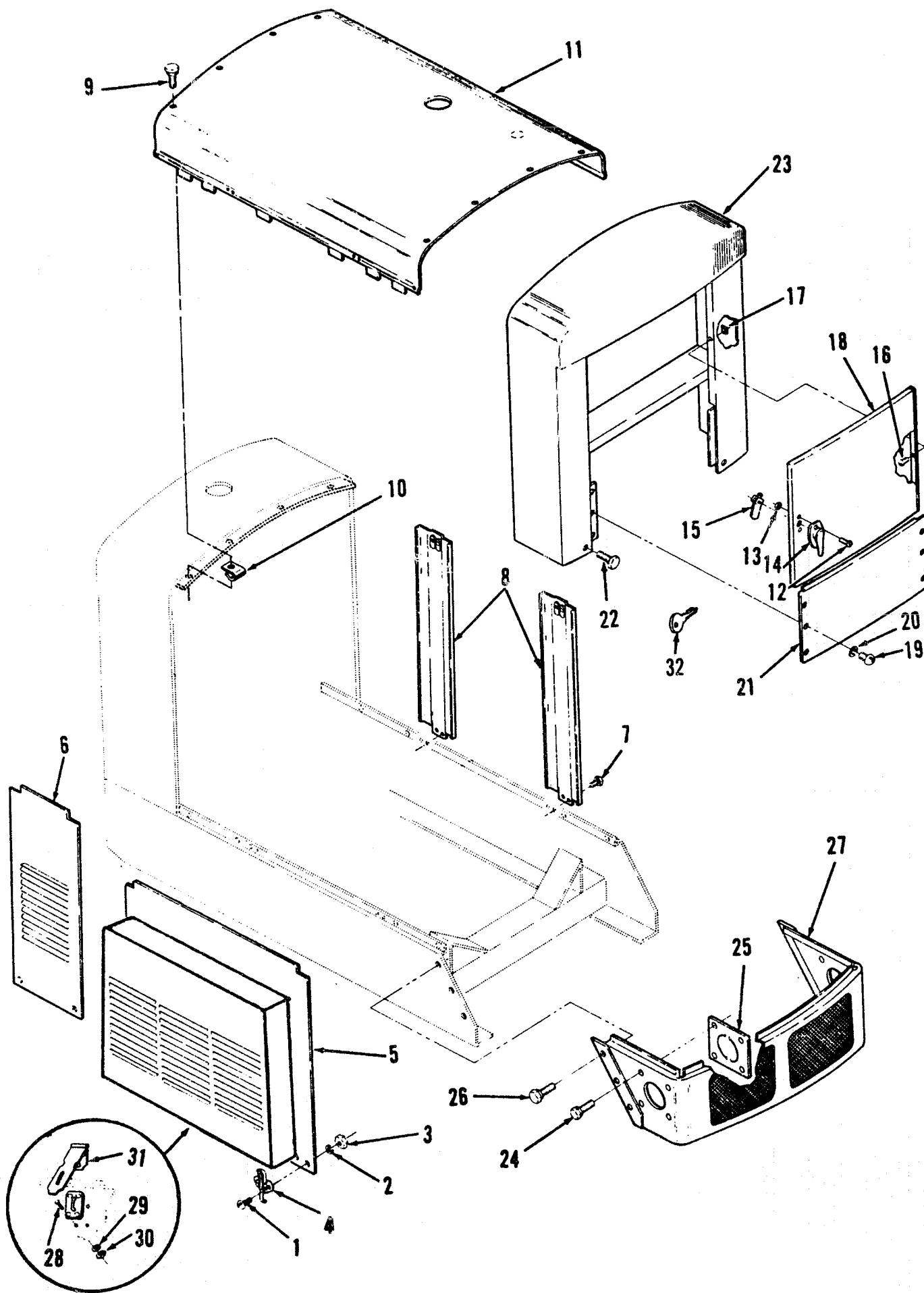
Exhaust System



Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0052	4	Screw, Cap - Hex Head (3/8-16 x 1-1/2")	14	155-1891	1	Tube Assembly - Exhaust
2	850-0045	8	Washer, Lock - Spring (5/16")	15	154-2336	2	Gasket
3	526-0022	4	Washer, Flat (21/64" ID x 9/16" OD x 1/16" THK)	16	505-0057	2	Plug, Pipe - Square Head (1/8 NPT)
4	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)	17	504-0005	2	Cock, Drain (1/8 NPT)
5	154-1739	1	Flange, Pipe - Exhaust Outlet	19	526-0188	16	Nut, Hex - Self-locking (3/8-24)
6	155-1886	1	Gasket	20	520-0819	16	Washer, Flat (5/16")
7	862-0003	4	Nut, Hex (3/8-16)	21	155-1923	2	Stud (3/8-24 x 3/8-16 x 1-7/8")
8	850-0050	4	Washer, Lock - Spring (3/8")	22	154-1766	2	Gasket
9	520-0925	4	Stud - SST (3/8-16 x 1-1/4")				Manifold, Exhaust - Liquid Cooled (Includes End Mounting Studs)
10	145-0533	1	Gasket				Stud (5/16-24 x 5/16-18 x 1-7/8")
11			Turbocharger	23	520-0165	8	Elbow, Pipe - Street, 90° (2-1/2 NPT)
	145-0541	1	50 Hertz Sets				
	145-0539	1	60 Hertz Sets	24	505-0216	1	
12	870-0195	8	Nut, Self-locking - Hex (5/16-24)				
13	850-0165	4	Washer, Lock - Spring - SST (5/16")				

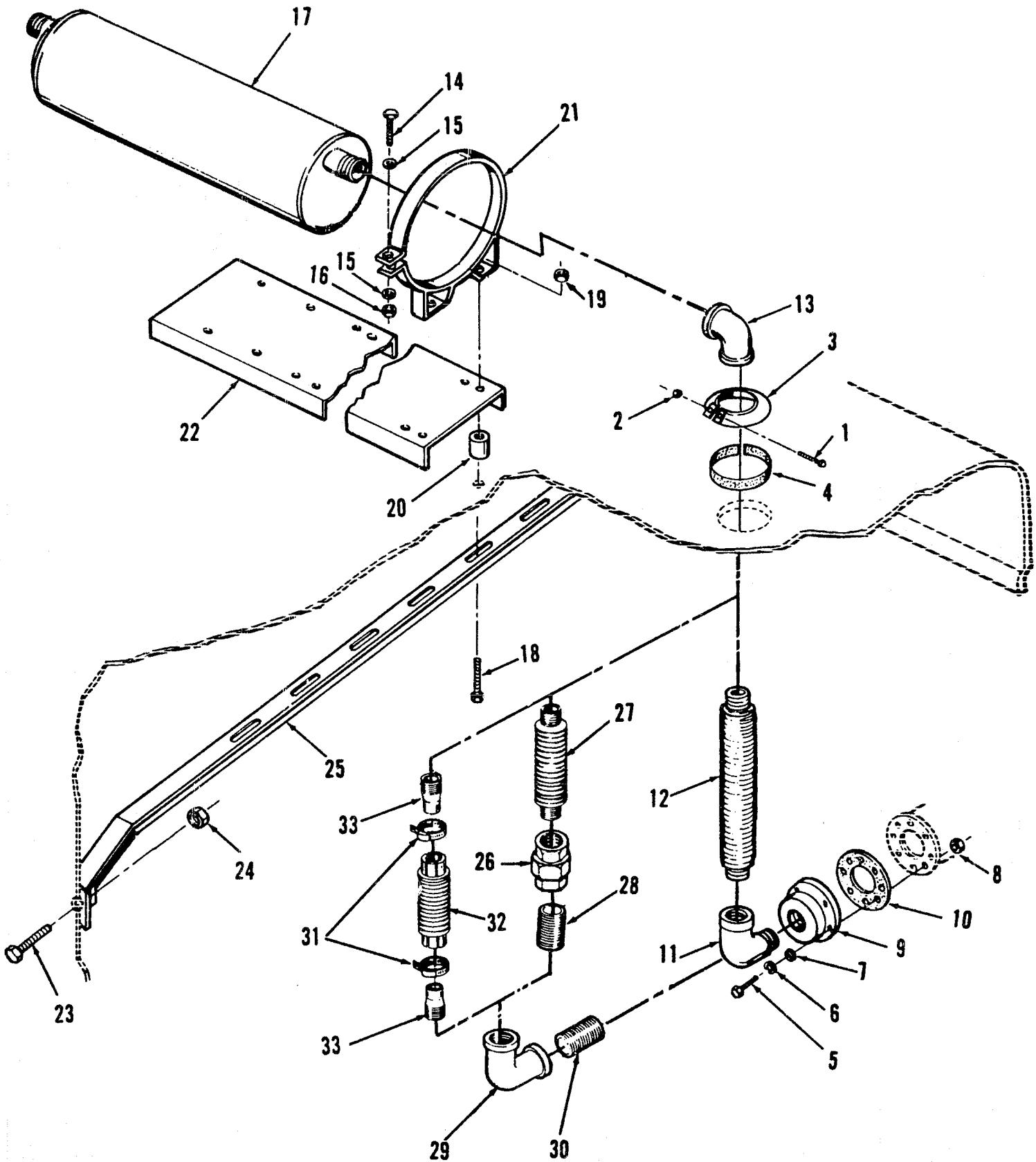
Set Housing



Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0098	8	Screw, Machine - Round Head (#10-32 x 3/8")	17	870-0106	3	Nut, Sheet Spring (1/4")
2	850-0030	8	Washer, Lock - Spring (#10)	18	405-1777	1	Door, Access - Rear
3	870-0053	8	Nut, Hex (#10-32)	19	813-0098	6	Screw, Machine - Round Head (#10-32 x 3/8")
4	406-0105	4	Fastener, Door	20	850-0030	6	Washer, Lock - Spring (#10)
5	405-1774	2	Door, Access - Louvered (Does Not Include Fastener)	21	405-1780	1	Panel, Access - Rear
6	405-3012	4	Panel, Access - Louvered (Does Not Include Fastener)	22	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
7	821-0014	28	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	23	405-1775	1	Panel, Housing - Rear
8	405-1776	4	Support, Housing - Center	24	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
9	821-0014	12	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	25	403-0895	2	Plate, Cover
10	870-0113	12	Nut, Clinch (5/16-18)	26	821-0029	6	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
11	405-3027	1	Panel, Housing - Top	27	403-0894	1	Chassis, Rear
12	812-0149	2	Screw, Machine - Round Head (1/4-20 x 9/16")	28	814-0079	28	Screw, Machine - Flat Head (#8-32 x 1/2")
13	870-0232	2	Nut, Self-locking - Hex with ET Lockwasher (1/4-20)	29	850-0025	28	Washer, Lock - Spring (#8)
14	406-0157	1	Handle (Includes Key)	30	860-0008	28	Nut, Hex (#8-32)
15	406-0089	1	Catch, Latch	31	406-0249	4	Hasp Set
16	809-0059	3	Screw, Tapping - Pan Head (1/4 x 1/2")	32	406-0565	1	Key - Handle

Exhaust Muffler

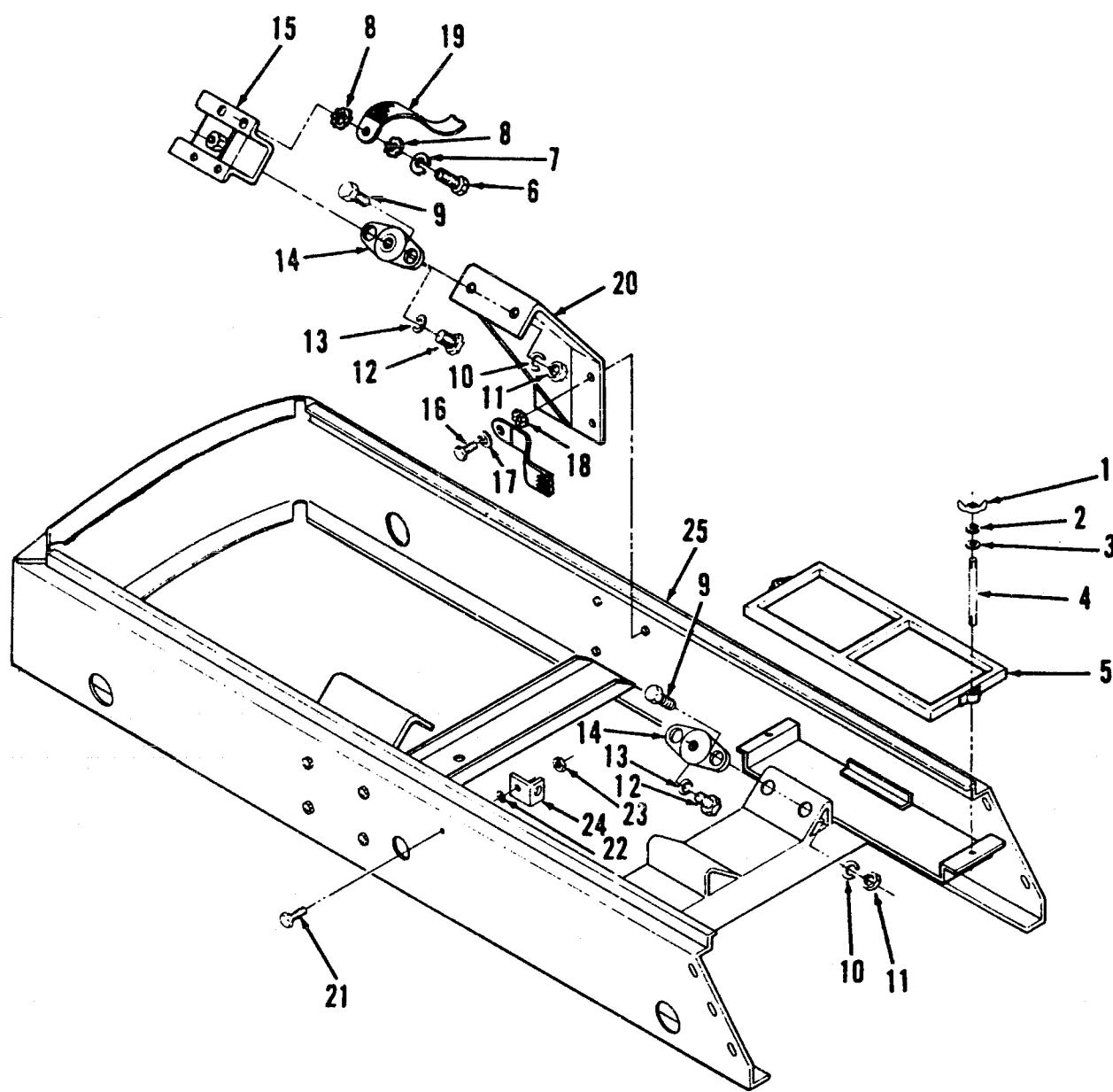


Exhaust Muffler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0105	2	Screw, Machine - Round Head (#10-32 x 1")	20	155-1430	4	Spacer, Sleeve (1/2"ID x 1-1/2"OD x 2"THK)
2	870-0188	2	Nut, Self-locking - Hex (#10-32)	21	140-0752	2	Band, Mounting (12"ID)
3	155-1422	1	Shield, Rain	22	155-1947	1	Shield, Heat
4	895-0160	1	Strip, Asbestos (2"W x 1/16"THK x 13-1/2"LG)	23	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
5	800-0031	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	24	870-0048	4	Nut, Self-locking - Hex (5/16-18)
6	850-0045	8	Washer, Lock - Spring (5/16")	25	155-0789	2	Bracket, Support - Muffler Mounting
7	526-0022	4	Washer, Flat (21/64"ID x 9/16"OD x 1/16"THK)	26	505-0702	1	*Union (3 NPT) July 1982 thru 1983
8	862-0014	4	Nut, Hex (5/16-18)	27	155-1592	1	*Tube, Exhaust - Flexible (3 NPT x 12"LG) July 1982 thru 1983
9	154-1739	1	Flange - Exhaust Manifold	28	505-0382	1	*Nipple, Pipe - Close (3 NPT) July 1982 thru 1983
10	155-1886	1	Gasket	29	505-0668	1	*Elbow, Pipe - 90°, Reducing (3 NPT x 2-1/2 NPT) Begin July 1982
11	505-0216	1	*Elbow, Pipe - Street, 90° (2-1/2 NPT) Thru June 1982	30	505-0103	1	*Nipple, Pipe - Close (2-1/2 NPT) Begin July 1982
12	155-1948	1	*Tube, Exhaust - Flexible, Reducing (3 NPT x 2-1/2 NPT x 13-1/4"LG) Thru June 1982	31	503-0965	2	*Clamp, Hose - Begin 1984
13	505-1168	1	Elbow, Pipe - 90°, Reducing (4 NPT x 3 NPT)	32	155-1489	1	*Tube, Exhaust - Flexible (3"ID x 9"LG) Begin 1984
14	800-0037	2	Screw, Cap - Hex Head (5/16-18 x 3")	33	155-1463	2	*Connector, Exhaust (3 NPT) Begin 1984
15	526-0113	4	Washer, Flat (11/32"ID x 11/16"OD x 1/16"THK)				
16	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)				
17	155-1021	1	Muffler, Exhaust				
18	800-0037	4	Screw, Cap - Hex Head (5/16-18 x 3")				
19	870-0048	4	Nut, Self-locking, - Hex (5/16-18)				

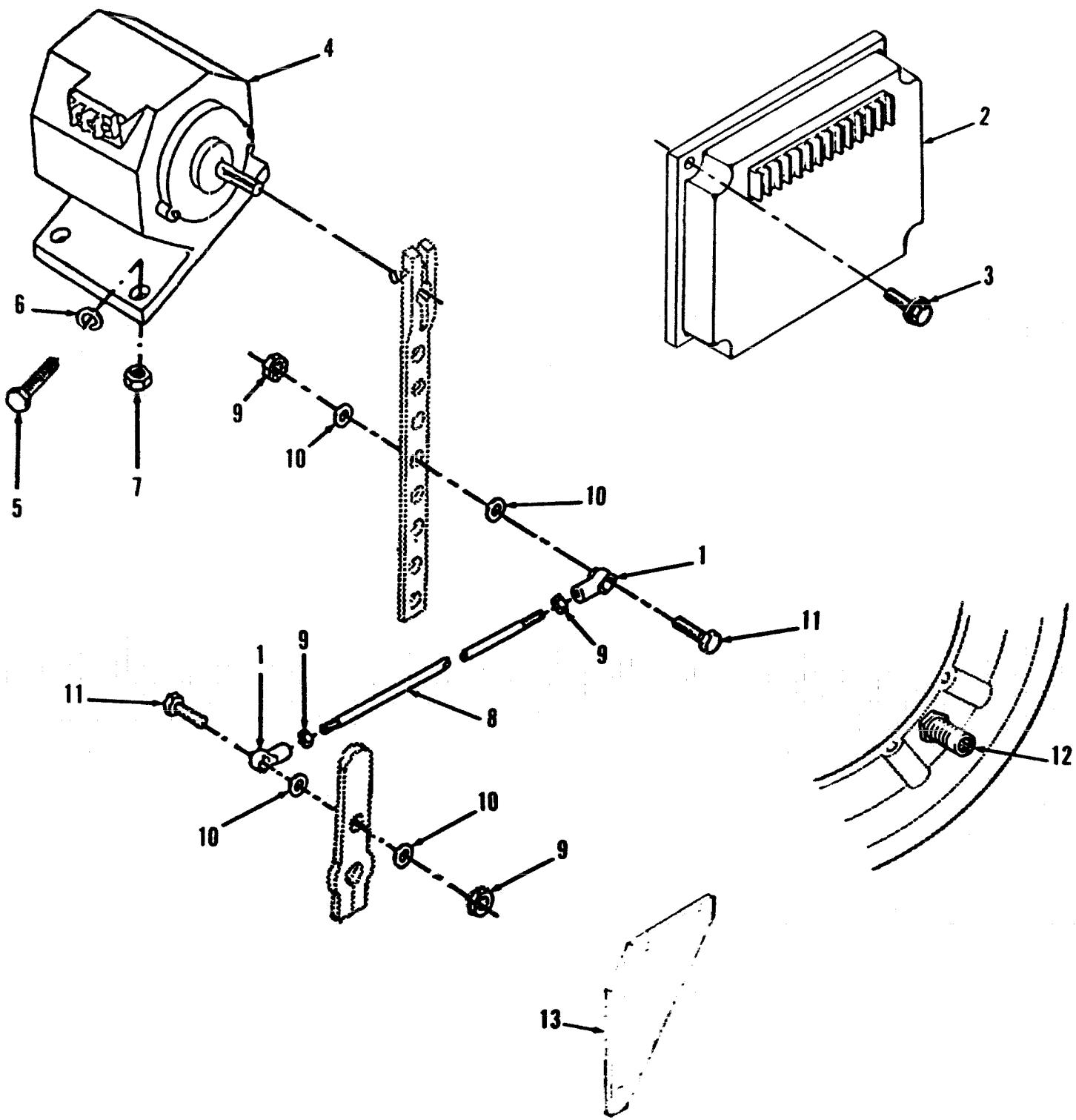
* - NOTE: Various Factory Installed Systems;
Recommended Replacement Using Latest Design Parts.

Chassis



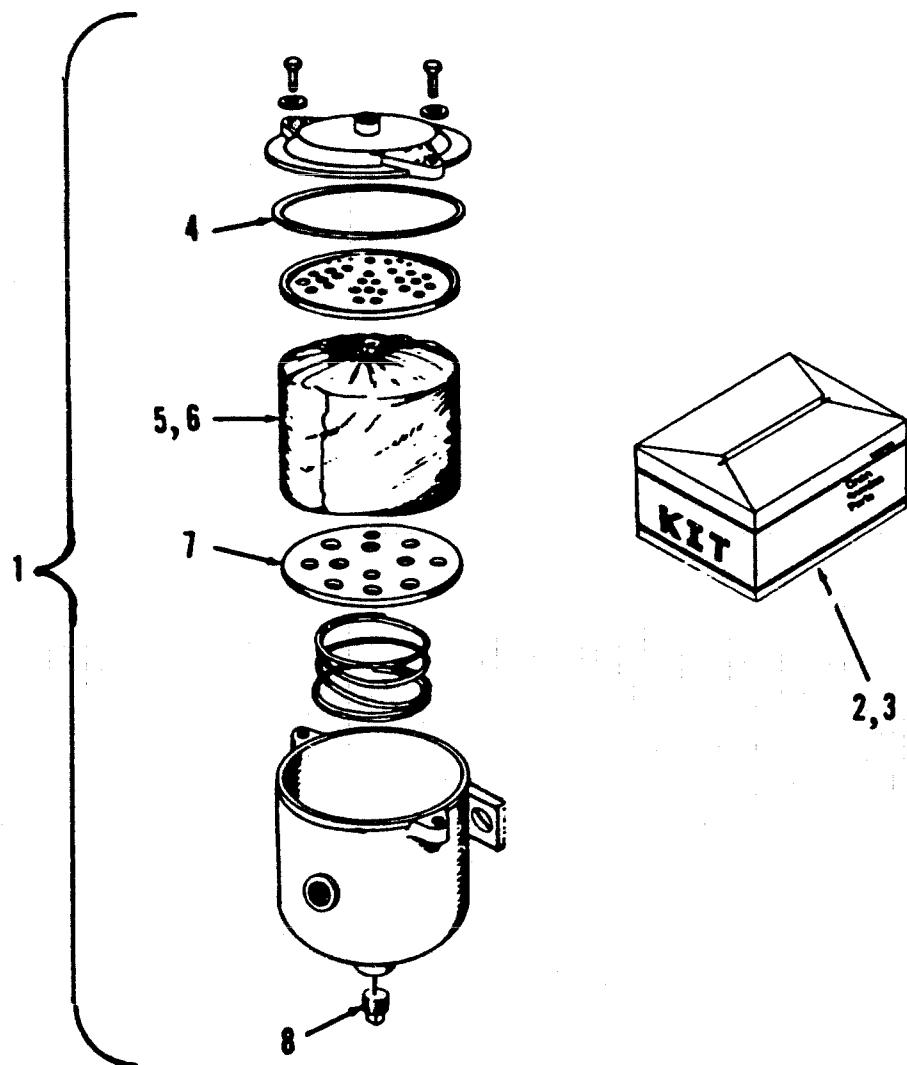
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	865-0007	2	Nut, Wing (5/16-18)	13	850-0079	4	Washer, Lock - Spring (3/4")
2	850-0045	2	Washer, Lock - Spring (5/16")	14	402-0371	4	Mount, Vibration
3	526-0115	2	Washer, Flat (11/32" ID x 11/16"OD x 1/16"THK)	15	403-1193	2	Support, Mounting - Engine
4	520-0231	2	Stud (5/16-18 x 5/16-24 x 7-9/16"LG)	16	800-0071	8	Screw, Cap - Hex Head (7/16-14 x 1")
5	416-0338	1	Frame, Holddown - Battery	17	850-0055	8	Washer, Lock - Spring (7/16")
6	800-0071	6	Screw, Cap - Hex Head (7/16-14 x 1")	18	856-0013	8	Washer, Lock - EIT (1/2")
7	850-0055	8	Washer, Lock - Spring (7/16")	19	337-0090	1	Strap, Electrical - Ground
8	856-0013	8	Washer, Lock - EIT (1/2")	20	403-1194	2	Bracket, Mounting - Engine
9	800-0071	8	Screw, Cap - Hex Head (7/16-14 x 1")	21	821-0016	1	Screw, Self-locking - Hex Washer Head (5/16-18 x 1")
10	850-0055	8	Washer, Lock - Spring (7/16")	22	856-0008	1	Washer, Lock - EIT (5/16")
11	862-0004	8	Nut, Hex (7/16-14)	23	870-0257	1	Nut, Self-locking - Hex Washer Head (5/16-18)
12	800-0152	4	Screw, Cap - Hex Head (3/4-10 x 1-1/4")	24	332-1473	1	Terminal, Lug - Ground
				25	403-1942	1	Chassis

Governor - Electronic



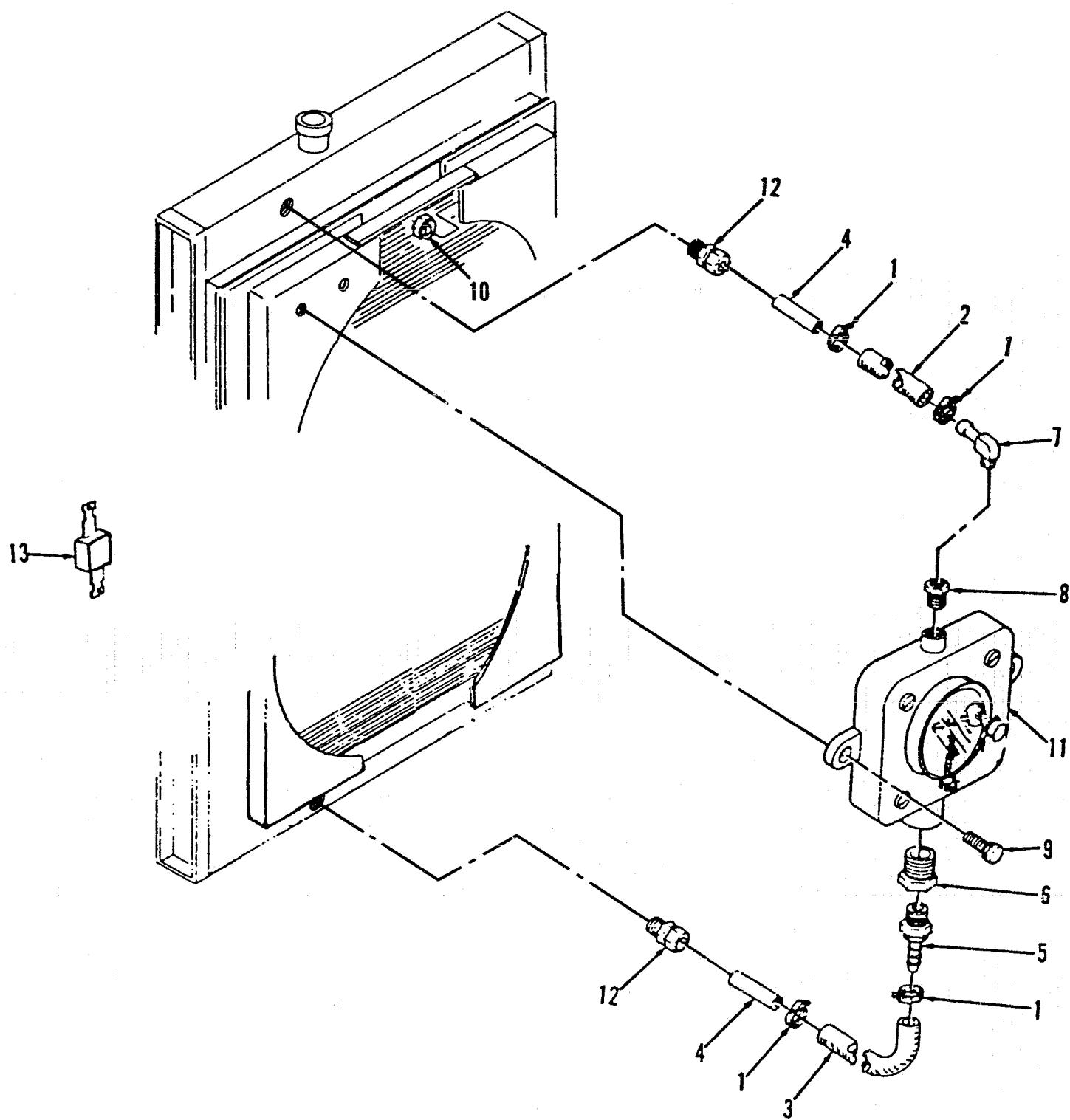
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1898	1	Governor Package (Barber Coleman Part No. DYNK 10117)	7	862-0001	4	Nut, Hex (1/4-20)
2	151-0605	1	Controller, Governor	8	520-0086	1	Stud (#10-32 x 4-3/4")
3	821-0005	4	Screw, Self-Locking - Hex Washer Head (10-32 x 1/2")	9	870-0131	4	Nut, Self-Locking - Hex External Tooth
4	151-0566	1	Actuator	10	526-0008	4	Washer, Flat
5	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")	11	821-0003	2	Screw, Self-Locking - Hex Head
6	850-0040	4	Washer, Lock - Spring (1/4")	12	151-0411	1	Pickup, Magnetic (Engine to Generator Adapter Mounted)
				13	370-2010	1	Gusset

Filter - Coolant



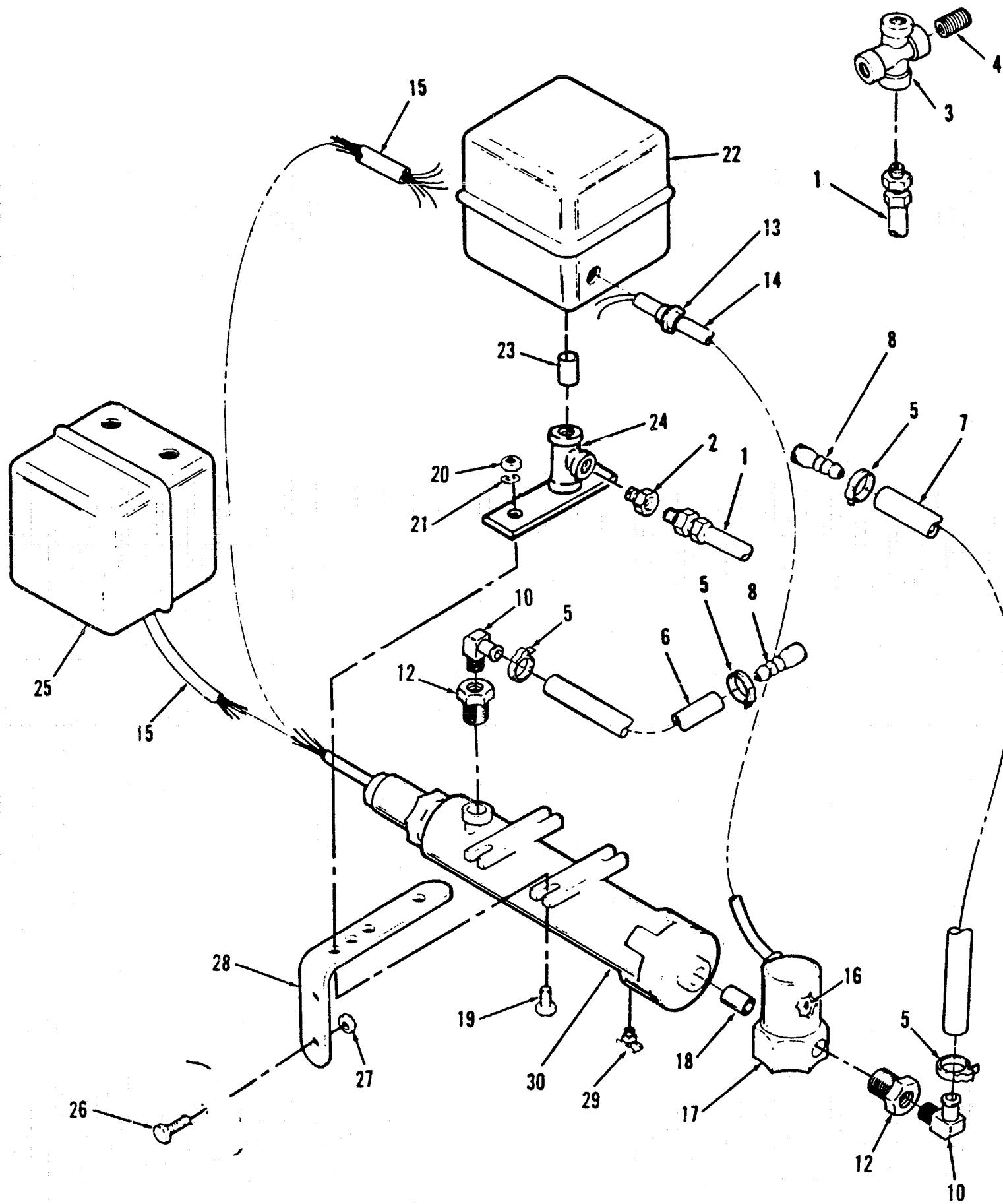
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-0497	1	Filter, Coolant (Includes Parts Marked @)	6	130-0776	1	#Element (Anti-freeze)
2	130-0771	1	Kit, Element (Includes Parts Marked *)	7	130-0780	1	*#@Plate, Sacrificial
3	130-0772	1	Kit, Element (Includes Parts Marked #)	8	502-0155	1	@Plug, Pipe - Brass (3/8 NPT)
4	130-0778	1	*#@Gasket, Cover	@ - Parts Included in Coolant Filter.		* - Parts Included in Element (Water) Kit.	
5	130-0775	1	*#@Element (Water)	# - Parts Included in Element (Anti-freeze) Kit.			

Switch - Low Coolant Level



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0446	4	Clamp, Hose	9	821-0011	2	Screw, Self-locking - Hex
2	503-0743	1	Hose, Rubber (1/4"ID x 18"LG)	10	870-0212	2	Washer Head (1/4-20 x 7/8")
3	503-1118	1	Hose, Rubber (1/4"ID x 48"LG)	11	193-0329	1	Nut, Self-locking - Hex
4	130-2053	2	Tube - Copper (1/4"OD x 2"LG)	12	502-0809	2	Washer Head (1/4-20)
5	503-0395	1	Connector, Pipe to Hose (1/8 NPT x 3/16"ID Hose)	13	357-0030	2	Switch, Coolant Level
6	505-0151	1	Bushing, Reducer - Hex, Brass (1/2 NPT x 1/8 NPT)				Adapter, Tube (Blind Hole Fitting) 5/8"OD x 1/4"OD
7	502-0313	1	Elbow, Pipe to Hose - 90° (1/8 NPT x 1/4"ID Hose)				Tube
8	505-0007	1	Bushing, Reducer - Hex, Brass (1/4 NPT x 1/8 NPT)				Diode, Rectifier (Used in Wiring Harness Leads)

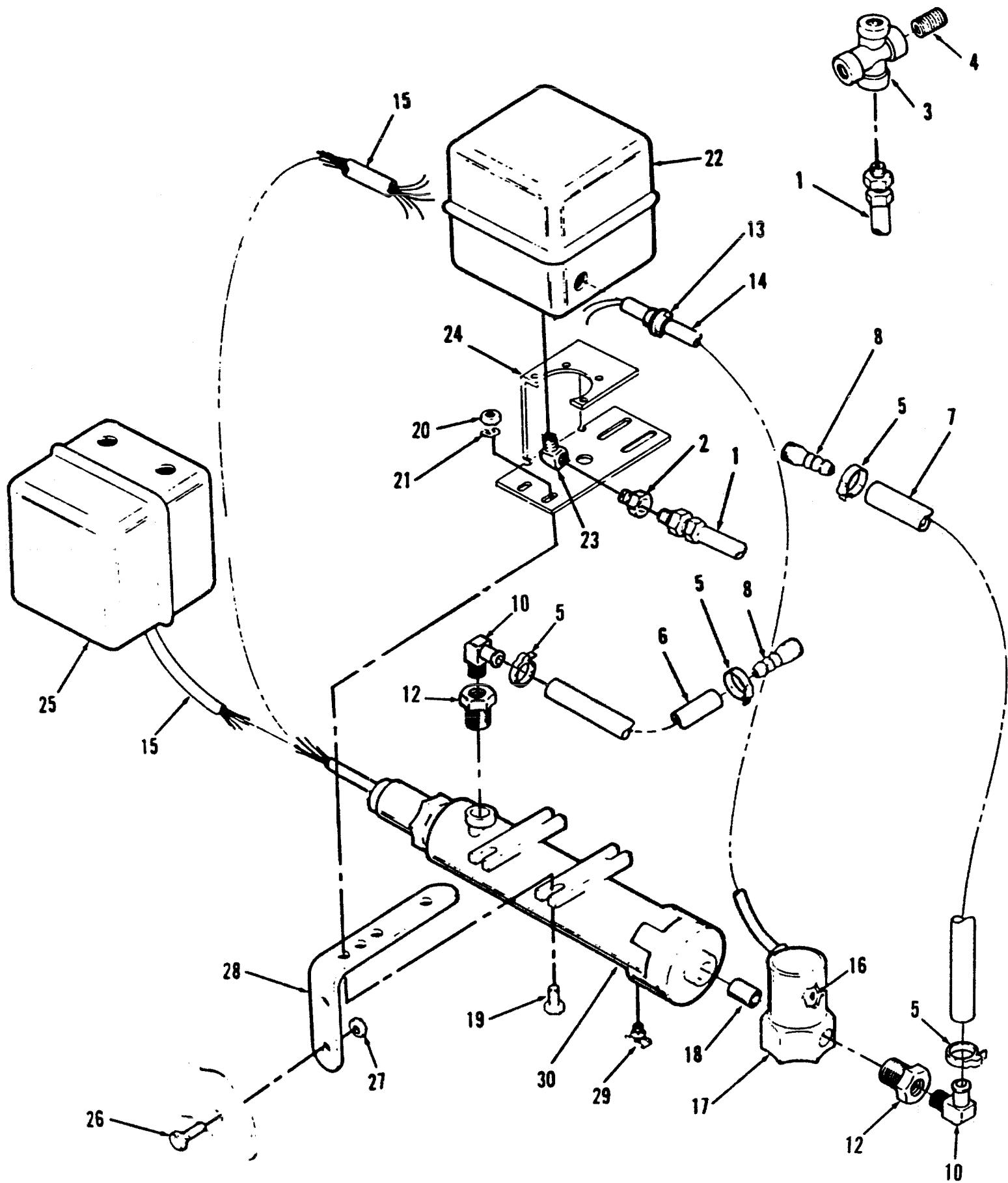
Heater - Engine Coolant
(1978 thru 1982)



Heater - Engine Coolant
(1978 thru 1982)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0225	1	Line, Fuel - Flexible	20	862-0001	4	Nut, Hex (1/4-20)
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	21	850-0040	4	Washer, Lock - Spring (1/4")
3	505-0763	1	Cross, Pipe (1/8 NPT)	22	309-0307	1	Switch, Pressure
4	505-0098	1	Nipple, Pipe - Close (1/8 NPT x 3/4"LG)	23	505-0099	1	Nipple, Pipe - Close (1/4 NPT x 7/8"LG)
5	503-0183	4	Clamp, Hose	24	333-0142	1	Bracket, Support with Pipe Tee
6	503-0832	1	Hose, Rubber (5/8"ID x 12"LG)	25	307-1460	1	Contactor, Electrical 230 VAC, 3 Pole
7	503-0843	1	Hose, Rubber (5/8"ID x 40"LG)	307-1164		1	460 VAC, 3 Pole
8	502-0613	2	Connector, Pipe to Hose (1/4 NPT x 5/8"ID Hose)	26	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
10	502-0942	2	Elbow, Pipe - 90° (3/8 NPT)	27	870-0257	4	Nut, Self-locking - Hex Washer Head (5/16-18)
12	505-0455	2	Bushing, Reducer - Hex (1 NPT x 3/8 NPT)	28	130-1192	2	Bracket, Mounting - Heater
13	331-0027	6	Connector, Cable	29	504-0003	1	Cock, Drain (1/4 NPT)
14	NFS		Cord, Electrical (2-#14, Type SO, 600 Volt)	30			Heater, Electrical - Engine Coolant
15	NFS		Cable, Electrical (3-#12 or 4-#14, Type SO, 600 Volt)	333-0158		1	2000 Watt, 115 VAC, 1 Phase
16			Terminals (Select as Required)	333-0167		1	2000 Watt, 208 VAC, 1 Phase
	332-0014	4	#10	333-0148		1	2000 Watt, 208 VAC, 3 Phase
	332-0807	4	#8	333-0141		1	2000 Watt, 240 VAC, 1 Phase
	323-0957	4	Wire Nut	333-0176		1	2000 Watt, 380 VAC, 1 Phase
17	309-0304	1	Switch, Thermostatic	333-0170		1	2000 Watt, 380 VAC, 3 Phase
18	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/4"LG)	333-0147		1	2000 Watt, 480 VAC, 1 Phase
19	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")	333-0146		1	2000 Watt, 440 VAC, 3 Phase
				333-0172		1	2500 Watt, 440 VAC, 3 Phase

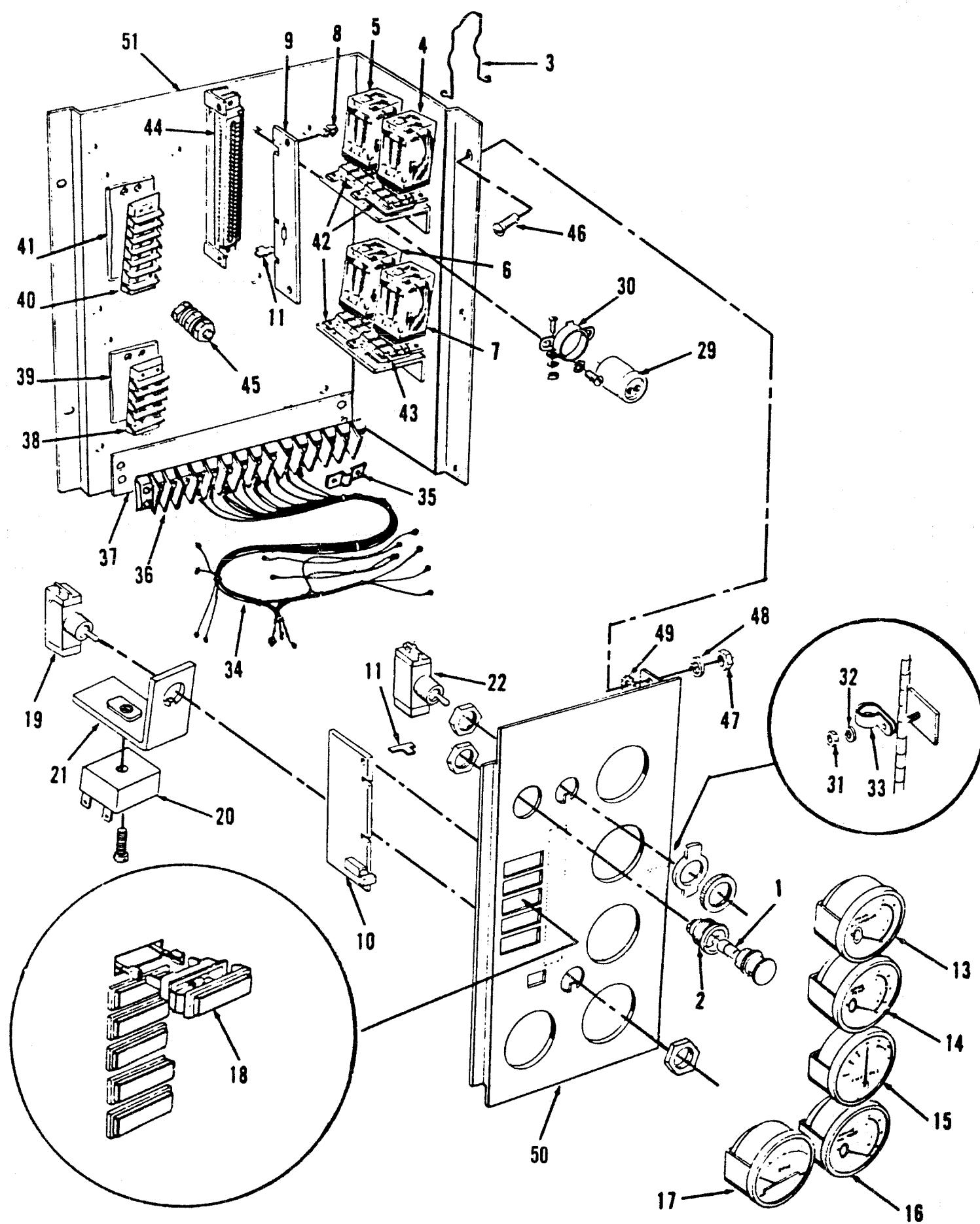
**Heater - Engine Coolant
(Begin 1983)**



Heater - Engine Coolant
(Begin 1983)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0225	1	Line, Fuel - Flexible	21	850-0040	4	Washer, Lock - Spring (1/4")
2	505-0007	1	Bushing, Reducer - Hex (1/4 NPT x 1/8 NPT)	22	309-0307	1	Switch, Pressure
3	505-0763	1	Cross, Pipe (1/8 NPT)	23	502-0054	1	Elbow, Pipe - Street, 90°, Brass (1/4 NPT)
4	505-0098	1	Nipple, Pipe - Close (1/8 NPT x 3/4"LG)	24	333-0224	1	Bracket, Mounting - Pressure Switch
5	503-0183	4	Clamp, Hose	812-0079		4	Screw, Machine - Round Head (#8-32 x 1/2")
6	503-0832	1	Hose, Rubber (5/8"ID x 12"LG)	850-0025		4	Washer, Lock - Spring (#8)
7	503-0843	1	Hose, Rubber (5/8"ID x 40"LG)	25			Contactor, Electrical
8	502-0613	2	Connector, Pipe to Hose (1/4 NPT x 5/8"ID Hose)	307-1460		1	230 VAC, 3 Pole
10	502-0942	2	Elbow, Pipe - 90° (3/8 NPT)	307-1164		1	460 VAC, 3 Pole
12	505-0455	2	Bushing, Reducer - Hex (1 NPT x 3/8 NPT)	26	821-0016	4	Screw, Self-locking - Hex
13	331-0027	6	Connector, Cable	27	870-0257	4	Washer Head (5/16-18 x 3/4")
14	NFS		Cord, Electrical (2-#14, Type SO, 600 Volt)	28	130-1192	2	Nut, Self-locking - Hex
15	NFS		Cable, Electrical (3-#12 or 4-#14, Type SO, 600 Volt)	29	504-0003	1	Washer Head (5/16-18)
16			Terminals (Select as Required)	30			Bracket, Mounting - Heater
	332-0014	4	#10		333-0158	1	Cock, Drain (1/4 NPT)
	332-0807	4	#8		333-0167	1	Heater, Electrical - Engine
	323-0957	4	Wire Nut		333-0148	1	Coolant
17	309-0304	1	Switch, Thermostatic		333-0141	1	2000 Watt, 115 VAC, 1 Phase
18	505-0004	1	Nipple, Pipe - Close (1 NPT x 1-1/4"LG)		333-0176	1	2000 Watt, 208 VAC, 1 Phase
19	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1")		333-0170	1	2000 Watt, 208 VAC, 3 Phase
20	862-0001	4	Nut, Hex (1/4-20)		333-0147	1	2000 Watt, 240 VAC, 1 Phase
					333-0146	1	2000 Watt, 380 VAC, 1 Phase
					333-0172	1	2000 Watt, 380 VAC, 3 Phase
							2000 Watt, 480 VAC, 1 Phase
							2000 Watt, 440 VAC, 3 Phase
							2500 Watt, 440 VAC, 3 Phase

Control - Engine
(Spec A)

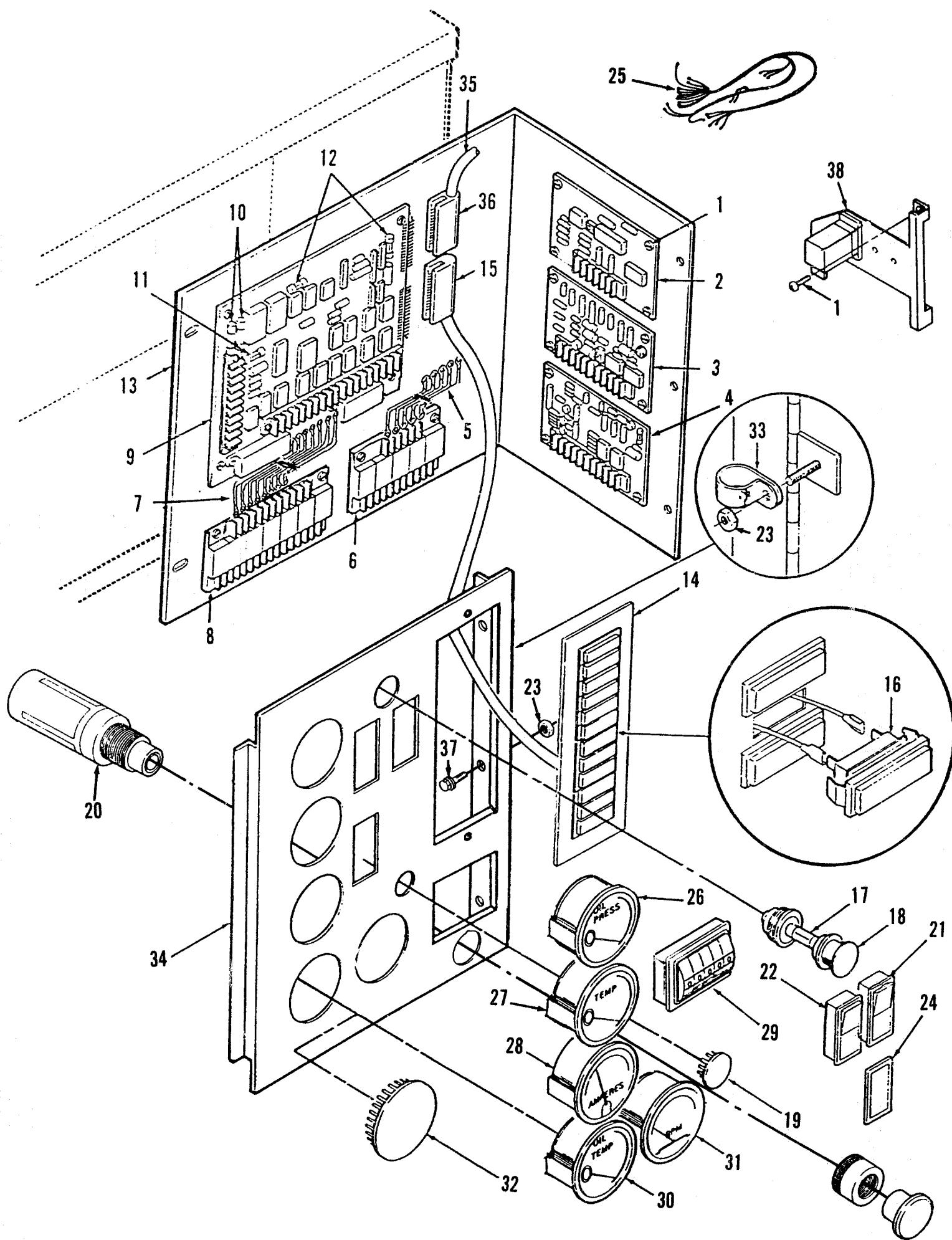


**Control - Engine
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0004	1	Lamp, Incandescent (12 VDC)	31	870-0053	1	Nut, Hex (#10-32)
2	322-0149	1	Light - Panel	32	850-0030	1	Washer, Lock - Spring (#10)
3	307-1157	4	Spring, Holddown - Relay	33	332-0051	1	Clip - Cable
4	307-1058	1	Relay (Ignition)	34			Harness, Wiring - Engine Control (Selection Required Consult your Onan Parts Distributor)
5	307-1058	1	Relay (Start Disconnect)	35	332-1043	1	Jumper, Terminal
6	307-1058	1	Relay (Run Alarm)	36	332-1005	1	Block, Terminal
7	307-1061	1	Relay (Starter Protection)	37	332-0795	1	20 Place
8	518-0374	4	Fastener, Snap-In	38	332-1271	1	16 Place
9			Cranker, Control (12 VDC)	39	332-1239	1	Strip, Marker
	300-0733	1	Standard	40	332-0699	1	20 Place
	300-0714	1	Cycle	41	332-1240	1	16 Place
10			Monitor, Engine Control (12 VDC)	42	323-0765	3	Block, Terminal - 4 Place
	300-0679	1	Standard (1 Fault Light)	43	323-0764	1	Strip, Marker - 4 Place
	300-0730	1	Penn State (1 Fault Light)	44	332-1280	11	Block, Terminal - 6 Place
	300-0681	1	Standard (5 Fault Light)	45	332-1271	1	Strip, Marker - 6 Place
11	332-1276	2	Plug, Keying	46	332-1280	8	Socket, Relay - 11 Place (W/O Terminals)
13	193-0243	1	Gauge, Pressure - Oil (12 VDC)	47	332-1271	1	Terminal
14	193-0245	1	Gauge, Temperature - Water (12 VDC)	48	323-1269	22	Socket, Relay - 8 Place (W/O Terminals)
15	302-1362	1	Ammeter	49	871-0010	3	Terminal
16	193-0248	1	Gauge, Temperature - Oil (12 VDC)	50	854-0010	2	Housing, Terminal - PC Board (W/O Terminals)
17	302-0749	1	Tachometer	51	856-0003	1	Terminal
18			Light, Indicator - 14 VDC	52	850-0030	1	Terminal Assembly, Ground (Includes Parts Marked *)
	322-0107	1	Red - OVERCRANK	53	526-0049	2	*Nut, Hex - Brass (#10-32)
	322-0108	1	Red - LO OIL PRESS	54			*Washer, Lock - IT (#10)
	322-0109	1	Red - HI ENG TEMP	55			*Washer, Lock - EIT (#10)
	322-0110	1	Red - LO ENG TEMP	56			*Washer, Lock - Spring (#10)
	322-0111	1	Red - OVERSPEED	57			*Washer, Flat - Brass (13/64"ID x 7/32"OD x 1/32"THK)
	322-0128	1	Red - FAULT	58			*Screw, Machine - Round Head, Brass (#10-32 x 7/8")
	322-0283	1	Red - SWITCH OFF	59			Screw, Machine - Truss Head (#10-32 x 3/8")
	322-0136	1	Red - (Blank, No Legend)	60			Nut, Hex (#10-32)
19			Switch, Toggle - Selector	61			Washer, Lock - Spring (#10)
	308-0138	1	Standard Sets	62			Washer, Lock - ET (#10)
	308-0327	1	Penn State Sets	63			Panel, Control - Engine (Selection Required, Consult Your Onan Parts Distributor)
20	333-0194-01	1	Flasher (12 VDC)	64	815-0203	1	Bracket, Mounting - Engine Control
	813-0105	1	Screw, Machine - Round Head (#10-32 x 1")	65	815-0026	5	
21	301-6053	1	Bracket, Mounting - Flasher	66	870-0053	1	
22	308-0002	1	Switch, Toggle (SPST)	67	850-0030	1	
29	356-0072	1	Capacitor, Fixed, Electrolytic (4000MFD, 30VDC)	68	856-0003	1	
	812-0061	1	Screw, Machine - Round Head (#6-32 x 3/8")	69	856-0003	1	
	853-0003	1	Washer, Lock - ET (#6)	70			
	860-0006	1	Nut, Hex (#6-32)	71	301-3253	1	
30	356-0070	1	Clamp, Mounting - Capacitor	72			
	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")	73			
	853-0003	2	Washer, Lock - ET (#6)	74			

* - Parts Included in Ground Terminal Assembly.

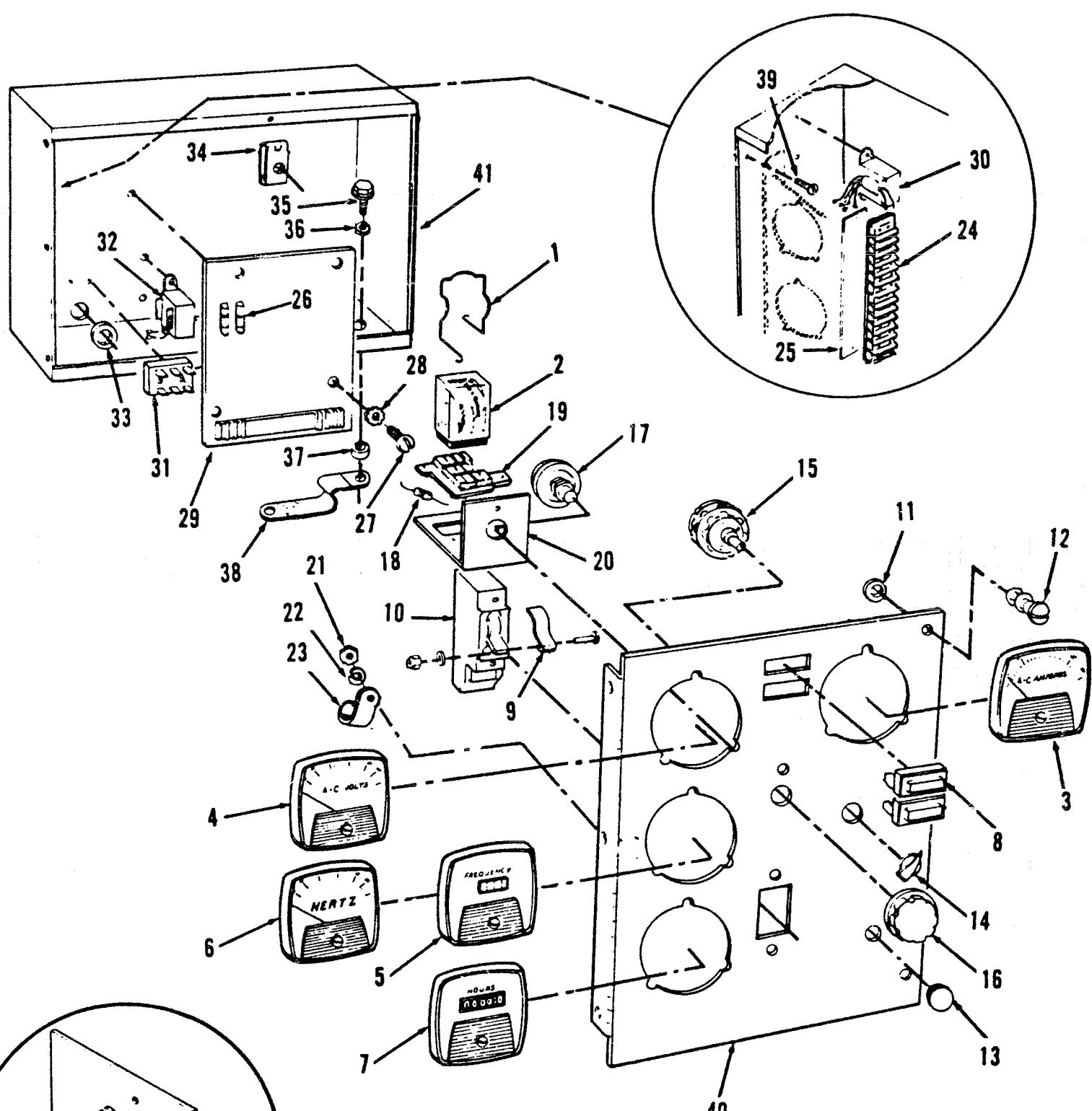
Control - Engine
(Spec B)



Control - Engine
(Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	16	322-0369-01	1	Lamp, Incandescent - 1/3 Watt 12 VDC
2	300-2897	1	Board - Time Delay, Start/Stop (A15)	17	322-0004	1	Lamp, Incandescent (DS11) 12 VDC
3			Board - Magnetic Sensor, Start Disconnect/Overspeed Sensor (See Separate Page for Switch, Sensor and Harness) (A16)	18	322-0361	1	Holder, Lamp
	300-2901	1	Standard	19	517-0131	1	Plug, Button
	300-2902	1	Precision	20	308-0853	1	Switch, Pushbutton - Emergency Stop (S14)
4	300-2905	1	Board - Over/Under Voltage Sensor (A17)	21	308-0892	1	Switch, Rocker - Restart/ Panel Light (S11)
5	338-1836	1	Harness - Alarm Relay (12 Light Control) (A14 to A11)	22	308-0784	1	Switch, Push - Run/Stop/ Remote (S12)
6	300-2855	1	Board - Alarm Relay (12 Light Control) (A14)	23	870-0131	4	Nut, Hex - With ET (#10-32)
7	338-1835	1	Harness - Alarm Relay (7 and 12 Light Controls) (A13 to A11)	24	301-6257	1	Cover - Switch Mounting Hole Harness
8	300-2862	1	Board - Alarm Relay (7 and 12 Light Controls) (A13)	25	338-1904	1	Time Delay - Start/Stop (A15 to A11)
9			Board - Engine Monitor (A11) (Includes Fuses)	26	193-0352	1	Over/Undervoltage Sensor (A17 to A11)
	300-2809	1	7 Light Control	27	193-0351	1	Gauge, Pressure - Oil (M11)
	300-2811	1	12 Light Control	28	302-1641	1	Gauge, Temperature - Water (M12)
10	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	29	302-0885	1	Voltmeter-DC (M13)
11	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	30	815-0385	2	Meter, Time Totalizing (M14)
12	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	31	870-0183	2	Screw, Machine - Round Head (#6-32 x 1/2")
13	301-8851	1	Bracket, Mounting	32	193-0330	1	Nut, Hex - Self-locking With ET (#6-32)
	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	33	302-1873-01	1	Gauge, Temperature - Oil (M15)
14			Module, Indicator - Fault (A12) (Includes Connector)	34	517-0221	1	Tachometer (M16)
	322-0359-01	1	7 Light Control	35	332-0052	1	Plug, Button
	322-0360-01	1	12 Light Control	36	301-9055-02	1	Clamp, Loop
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")	37	301-9055-01	1	Door, Control
	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)	38	338-2277	1	Doors With Three Round Gauge Holes
15	323-1310	1	Housing, Connector - 13 Pin (J3)	39	323-1308	1	Doors With Five Round Gauge Holes
	323-1302	13	Contact, Pin	40	323-1302	12	Harness, Wiring - DC (Includes Connector)
				41	821-0004	3	Housing, Connector - 12 Pin (J4)
				42	821-0004	12	Contact, Pin
				43	323-1302	12	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
				44	323-1302	3	Relay, Run (See Separate Page for Components)

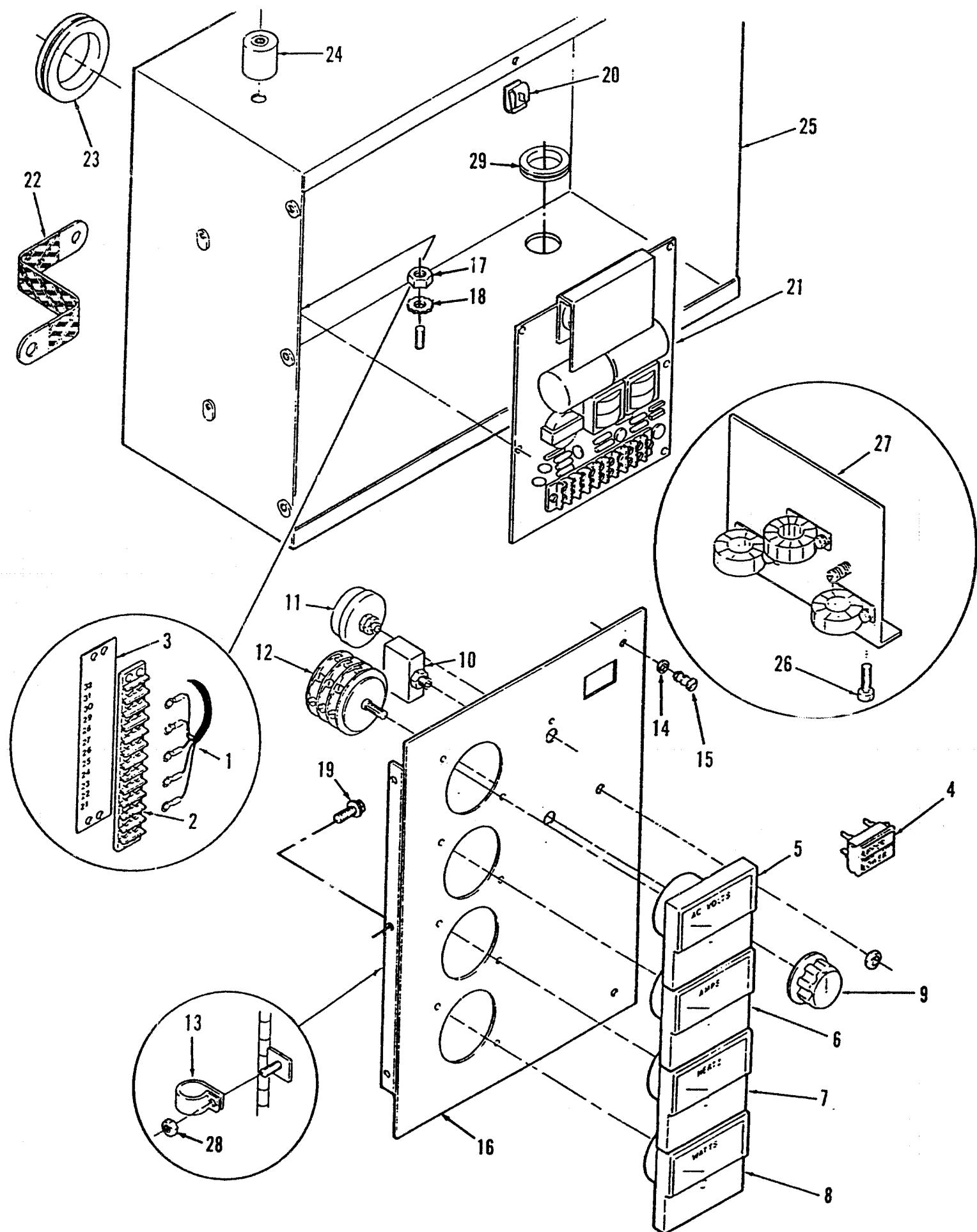
Control-Generator
(Spec A)



**Control-Generator
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holddown - Relay	20	301-3244	1	Bracket, Mounting - Relay
2	307-1061	1	Relay	21	870-0053	1	Nut, Hex (#10-32)
3			Ammeter	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0406	1	0-50 Amp	23	332-0051	1	Clip - Cable
	302-0408	1	0-75 Amp	24			Block, Terminal
	302-0410	1	0-100 Amp		332-0607	1	12 Place
	302-0411	1	0-200 Amp		332-0795	1	16 Place
	302-0412	1	0-250 Amp		812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
	302-0413	1	0-300 Amp		853-0003	2	Washer, Lock - ET (#6)
	302-0605	1	0-400 Amp		850-0020	2	Washer, Lock - Spring (#6)
	302-0719	1	0-75, 0-150 Amp	25			Strip, Marker
	302-0720	1	0-100, 0-200 Amp		332-1242	1	16 Place
	302-0721	1	0-150, 0-300 Amp		332-1248	1	12 Place
	302-0722	1	0-200, 0-400 Amp		26	2	Fuse, Cartridge (1/4 Amp)
	302-0723	1	0-250, 0-500 Amp		321-0204	2	Screw, Machine - Round Head (#6-32 x 5/8")
	302-0724	1	0-375, 0-750 Amp		27	4	Washer, Lock - ET (#6)
4			Voltmeter		853-0003	4	Regulator, Voltage
	302-0421	1	0-300 VAC		29		Used with 120 VAC Input
	302-0422	1	0-600 VAC		332-1268	1	Signal
	302-0612	1	0-500 VAC		332-1956	1	Used with 240 VAC Input
	302-0779	1	0-750 VAC				Signal
5	302-0718	1	0-300, 0-600 VAC				Transformer, Voltage
	302-0213	1	Meter, Frequency - Reed Type	30	315-0342	1	120 VAC
	115 VAC, 60 Hz				315-0431	1	240 VAC
	302-0221	1	230 VAC, 60 Hz		812-0061	2	Screw, Machine - Round Head
	302-0234	1	115 VAC, 50 Hz				(#6-32 x 3/8")
	302-0256	1	230 VAC, 50 Hz				Washer, Lock - ET (#6)
6			Meter, Frequency - Pointer		853-0003	2	Rectifier, Bridge
			Type		31	305-0675	Screw, Machine - Round Head
	302-0809	1	120 VAC, 60 Hz			2	(#6-32 x 1-1/4")
	302-0810	1	208 VAC, 60 Hz		812-0070		Washer, Lock - Spring (#6)
	302-0811	1	240 VAC, 60 Hz				Reactor
7			Meter, Time Totalizing		850-0020	2	Screw, Machine - Round Head
	302-0466	1	60 Hz		32	315-0384	(#6-32 x 3/8")
	302-0469	1	50 Hz				Washer, Lock - ET (#6)
8			Light, Indicator - 125 VAC		853-0003	2	Grommet
	322-0130	1	Red - Upper Scale		33	508-0001	Receptacle, Turnbutton Fastener
	322-0131	1	Red - Lower Scale		34	406-0332	
	322-0178	1	Red - Blank (No Legend)		35	800-0045	Screw, Cap - Hex Head
9	320-0307	1	Lock, Handle - Circuit			4	(5/16-18 x 3/8")
	815-0203	1	Screw, Machine - Round Head		36	850-0045	Washer, Lock - Spring (5/16")
			(#10-32 x 7/8")		37	402-0078	Dampener, Vibration
	854-0010	1	Washer, Lock - ET (#10)		38	337-0049	Strap, Electrical - Ground
	871-0010	1	Nut, Hex (#10-32)		39	815-0026	Screw, Machine - Truss Head
10	320-0431	1	Breaker, Circuit		40		(#10-32 x 3/8")
	812-0061	2	Screw, Machine - Round Head				Panel, Control - Generator
			(#6-32 x 3/8")		41		(Selection Required, Consult
	850-0020	2	Washer, Lock - Spring (#6)				Your Onan Parts Distributor)
11	406-0334	2	Clip, Retaining - Turnbutton		42	301-3158	1
			Fastener		43	821-0010	Box, Control
12	406-0333	2	Stud, Turnbutton Fastener				Screw, Self-locking - Hex
13	517-0131	1	Plug, Plastic				Washer Head (1/4-20 x 1/2")
14	303-0076	1	Knob, Pointer				Transformer, Current (See
15	308-0284	1	Switch, Selector				Separate Page for Components)
16	303-0032	1	Knob				
17	303-0170	1	Rheostat				
18	350-0556	1	Resistor, Fixed, Composition				
19	323-0765	1	Socket, Relay - 11 Place				
			(W/O Terminals)				
	812-0061	2	Screw, Machine - Round Head				
			(#6-32 x 3/8")				
	853-0003	2	Washer, Lock - ET (#6)				
	860-0005	1	Nut, Hex (#6-32)				
	332-1280	11	Terminal				

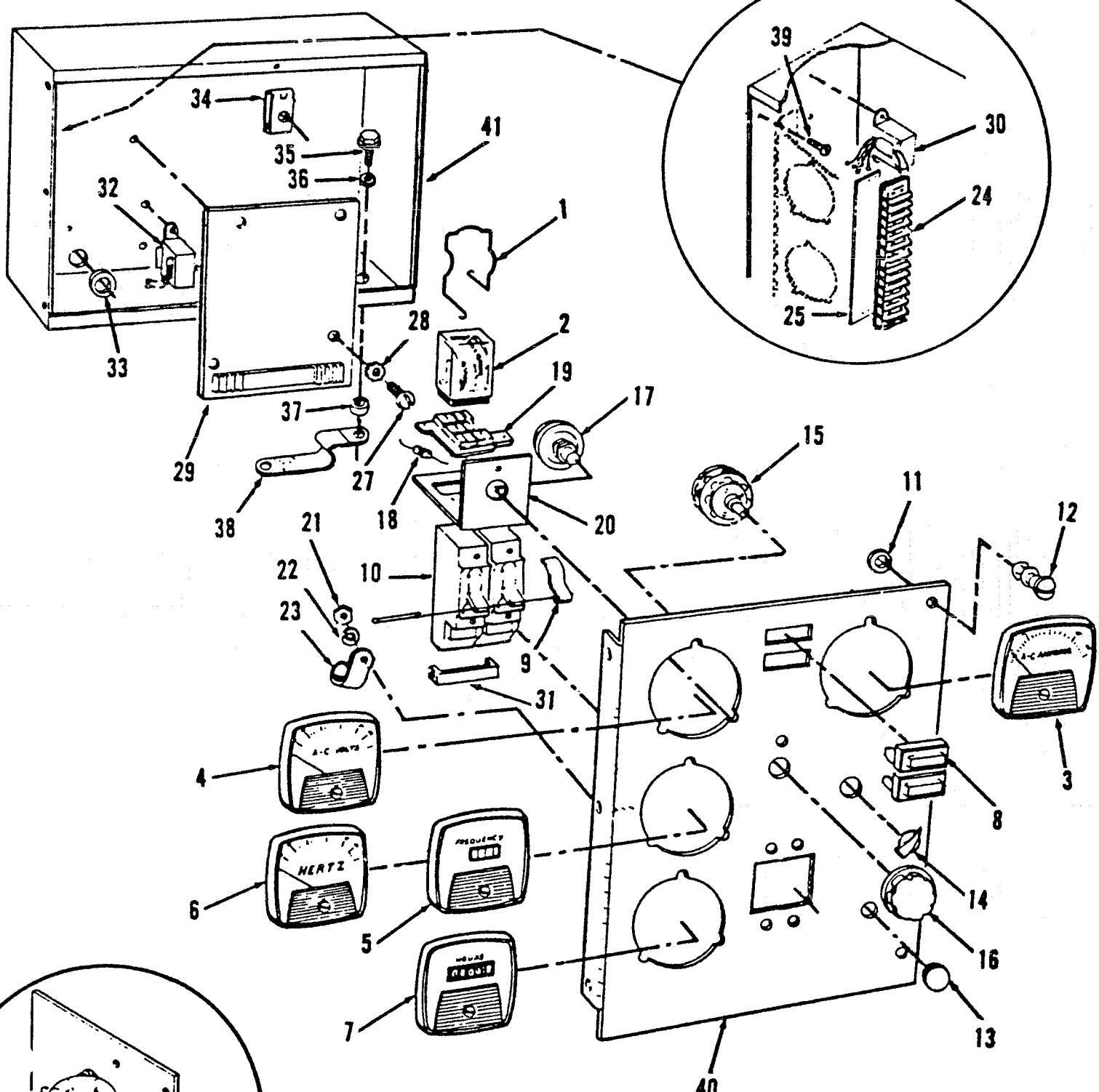
Control - Generator (Spec B)



Control - Generator
(Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	338-2278	1	Harness, Wiring - Includes Terminal Block (Controls With Meters) (Harness Not Used on Controls Without Meters)	12	308-0882	1	Switch, Rotary (S21)	
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	13	332-0052	1	Clamp, Loop	
2	332-0607	1	Block, Terminal (TB21)	14	406-0334	2	Clip - Fastener	
3	332-2723	1	Strip, Marker	15	406-0333	2	Stud - Fastener	
4	322-0323	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)	16			Door, Control	
5			Voltmeter (M21)				Without Meters	
	302-1148	1	0-300/600		301-9054-03	1	Without Wattmeter	
	302-1753	1	0-750		301-9054-02	1	With Wattmeter	
6			Ammeter (M22)		301-9054-01	1	Nut, Hex - Brass (1/4-20)	
	302-1473	1	0-50/100		17	871-0015	1	Washer, Locking - With ET (1/4")
	302-1147	1	0-75/150		18	853-0013	1	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
	302-1683	1	0-100/200		19	821-0004	3	Receptacle - Fastener
	302-1684	1	0-150/300		20	406-0332	2	Regulator, Voltage (VR21)
	302-1685	1	0-200/400		21	300-2880	1	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")
	302-1724	1	0-250/500		22	337-0049	1	Strap, Ground
	302-1725	1	0-375/750			800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
	302-1726	1	0-400/800			856-0008	1	Washer, Lock - EIT (5/16")
	302-1727	1	0-500/1000			862-0015	1	Nut, Hex (5/16-18)
	302-1728	1	0-600/1200		23	508-0051	1	Grommet
	302-1729	1	0-750/1500		24	402-0527	2	Mount, Vibration
	302-1798	1	0-1000/2000			800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
	302-1799	1	0-1500/3000			850-0045	4	Washer, Lock - Spring (5/16")
	302-1800	1	0-2000/4000		25	301-8065	1	Box, Control
7	302-1720	1	Meter, Frequency (M23)		26	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
8	-		Wattmeter (M24) (See Separate Page for Components)		27	-	Transformer, Current (See Separate Page for Components)	
9	303-0032	1	Knob		28	870-0131	1	Nut, Hex - With ET (#10-32)
10	320-1121	1	Breaker, Circuit (CB21)		29	508-0001	1	Grommet
11	303-0261	1	Rheostat (R21)					

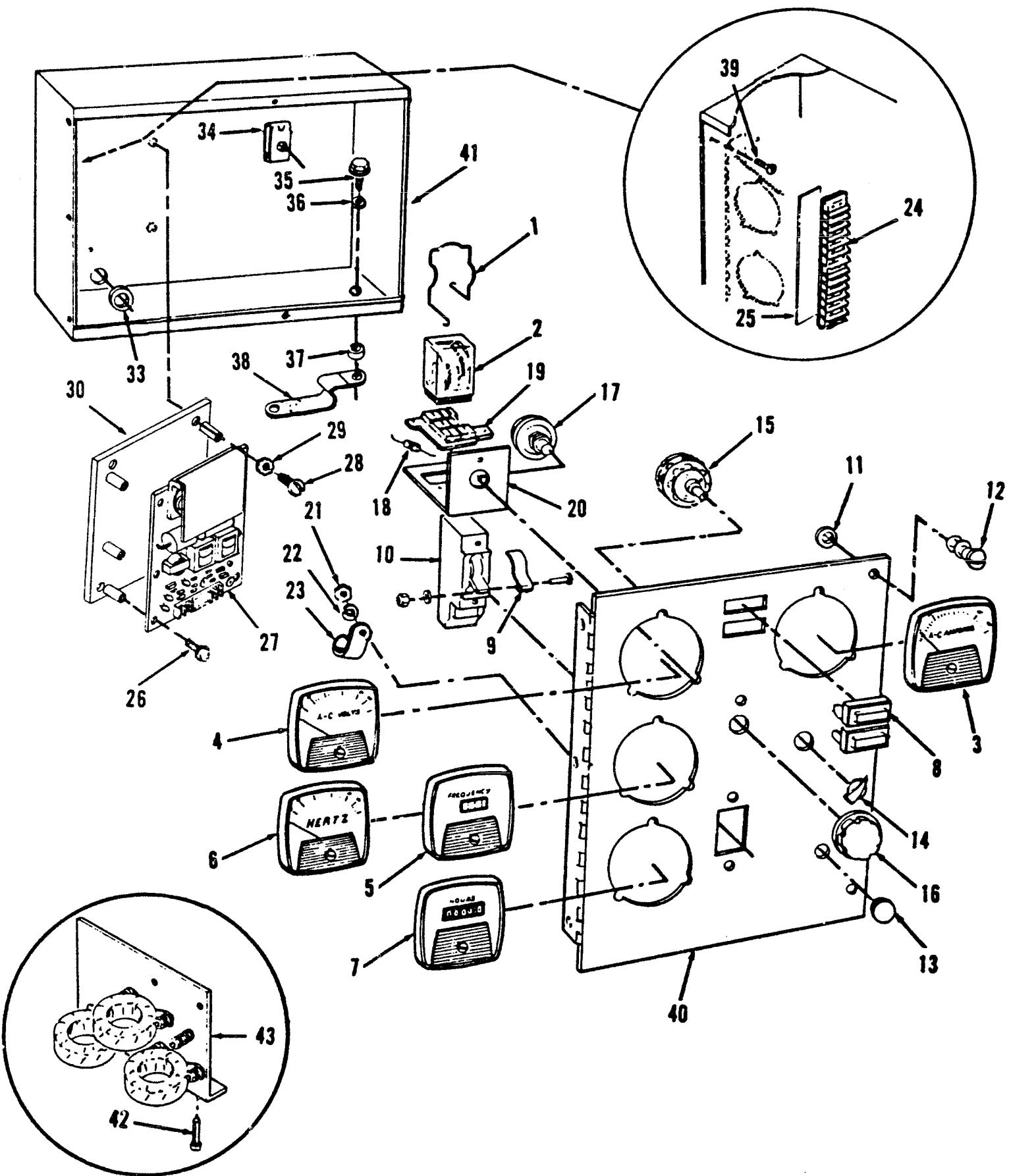
Control - Generator
(Switching Regulator)
(Spec A)



**Control - Generator
(Switching Regulator)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holddown - Relay	20	301-3244	1	Bracket, Mounting - Relay
2	307-1061	1	Relay	21	870-0053	1	Nut, Hex (#10-32)
3			Ammeter	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0406	1	0-50 Amp	23	332-0051	1	Clip - Cable
	302-0408	1	0-75 Amp	24			Block, Terminal
	302-0410	1	0-100 Amp		332-0607	1	12 Place
	302-0411	1	0-200 Amp		332-0795	1	16 Place
	302-0412	1	0-250 Amp		812-0066	2	Screw, Machine - Round Head
	302-0413	1	0-300 Amp				(#6-32 x 3/4")
	302-0605	1	0-400 Amp		853-0003	2	Washer, Lock - ET (#6)
	302-0719	1	0-75, 0-150 Amp		850-0020	2	Washer, Lock - Spring (#6)
	302-0720	1	0-100, 0-200 Amp	25			Strip, Marker
	302-0721	1	0-150, 0-300 Amp		332-1242	1	16 Place
	302-0722	1	0-200, 0-400 Amp		332-1248	1	12 Place
	302-0723	1	0-250, 0-500 Amp	27	812-0065	4	Screw, Machine - Round Head
	302-0724	1	0-375, 0-750 Amp				(#6-32 x 5/8")
4			Voltmeter	28	853-0003	4	Washer, Lock - Spring (#6)
	302-0421	1	0-300 VAC	29			Regulator, Voltage - Switching
	302-0422	1	0-600 VAC		300-1928	1	Semi-Frequency Sensitive
	302-0612	1	0-500 VAC				Type
	302-0779	1	0-750 VAC		300-1929	1	Voltage Sensitive Type
5			Meter, Frequency - Reed Type		300-1930	1	Frequency Sensitive Type
	302-0213	1	115 VAC, 60 Hz	30	315-0431	1	Transformer, Voltage
	302-0221	1	230 VAC, 60 Hz		812-0061	2	Screw, Machine - Round Head
	302-0234	1	115 VAC, 50 Hz				(#6-32 x 3/8")
	302-0256	1	230 VAC, 50 Hz		853-0003	2	Washer, Lock - ET (#6)
6			Meter, Frequency - Pointer	31	320-0202	1	Tie Bar - Circuit Breaker
			Type	32	315-0384	2	Reactor
	302-0809	1	120 VAC		812-0061	4	Screw, Machine - Round Head
	302-0810	1	208 VAC				(#6-32 x 3/8")
	302-0811	1	240 VAC		853-0003	4	Washer, Lock - ET (#6)
7			Meter, Time Totalizing	33	508-0001	1	Grommet
	302-0466	1	60 Hz	34	406-0332	2	Receptacle, Turnbutton
	302-0469	1	50 Hz				Fastener
8			Light, Indicator - 125 VAC	35	800-0045	4	Screw, Cap - Hex Head
	322-0130	1	Red - Upper Scale				(5/16-18 x 3/8")
	322-0131	1	Red - Lower Scale	36	850-0045	4	Washer, Lock - Spring (5/16")
	322-0178	1	Red - Blank (No Legend)	37	402-0078	4	Dampener, Vibration
9	320-0307	1	Lock, Handle - Circuit Breaker	38	337-0049	1	Strap, Ground
10	320-0455	2	Breaker, Circuit	39	815-0026	3	Screw, Machine - Truss Head
	812-0061	4					(#10-32 x 3/8")
	850-0020	4	Screw, Machine - Round Head	40			Panel, Control - Generator
11	406-0334	2	(#6-32 x 3/8")				(Selection Required, Consult
			Washer, Lock - Spring (#6)				Your Onan Parts Distributor)
			Washer, Retaining - Turnbutton	41	301-3158	1	Box, Control
			Fastener	42	821-0010	2	Screw, Self-locking - Hex
12	406-0333	2	Stud, Turnbutton Fastener				Washer Head (1/4-20 x 1/2")
13	517-0131	1	Plug, Plastic	43			Transformer, Current (See
	303-0076	1	Knob, Pointer				Separate Page for Components)
15	308-0284	1	Switch, Selector				
16	303-0032	1	Knob				
17	303-0170	1	Rheostat				
18	350-0556	1	Resistor, Fixed Composition				
19	323-0765	1	Socket, Relay - 11 Place				
			(W/O Terminals)				
	812-0061	2	Screw, Machine - Round Head				
			(#6-32 x 3/8")				
	853-0003	2	Washer, Lock - ET (#6)				
	332-1280	11	Terminal				

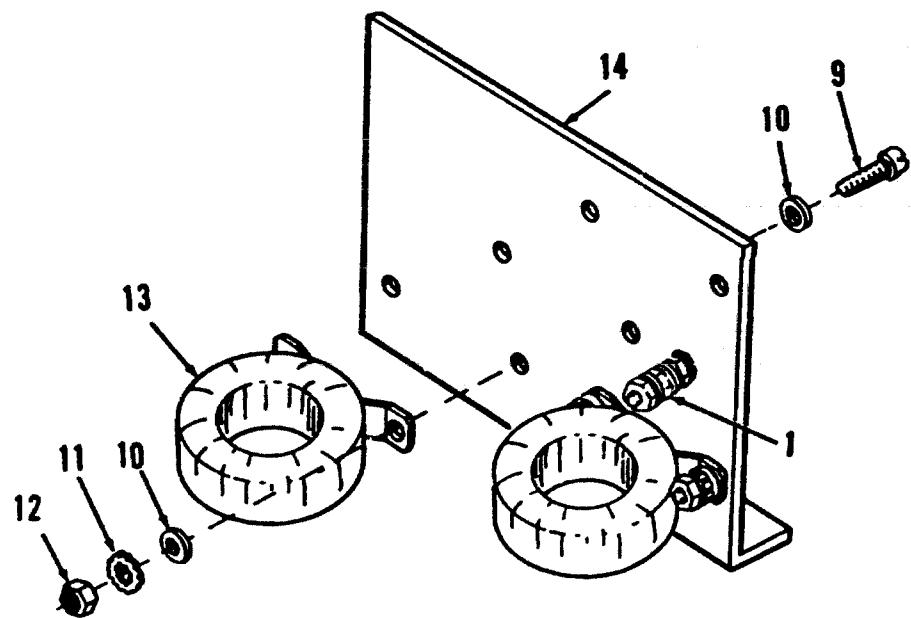
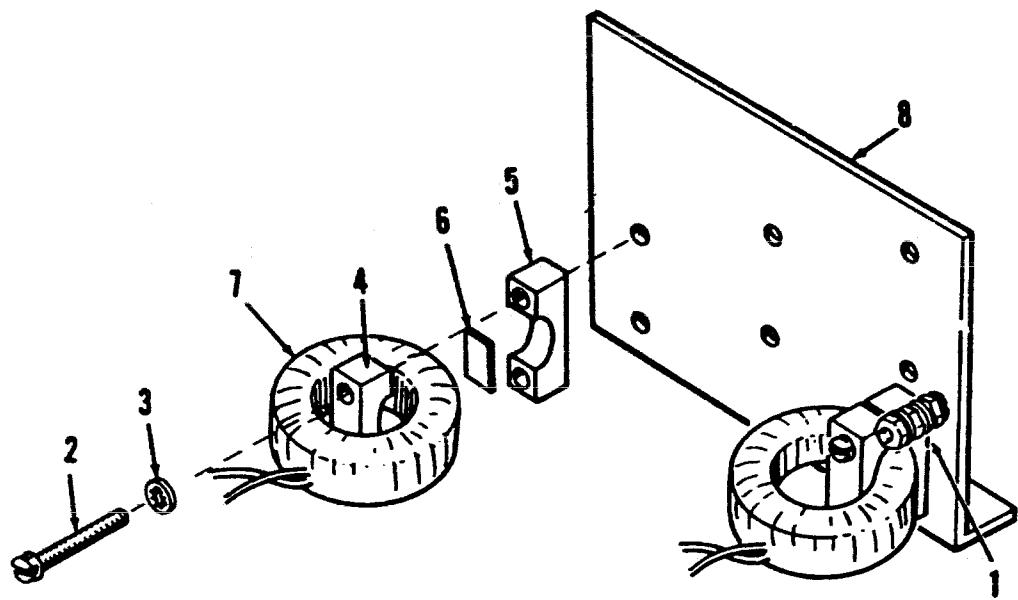
Control - Generator
(Torque Matched Regulator)
(Spec A)



**Control - Generator
(Torque Matched Regulator)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Holdown - Relay	15	308-0284	1	Switch, Selector
2	307-1061	1	Relay	16	303-0032	1	Knob
3			Ammeter	17	303-0261	1	Rheostat
	302-0406	1	0-50 Amp	18	350-0556	1	Resistor, Fixed Composition
	302-0408	1	0-75 Amp	19	323-0765	1	Socket, Relay - 11 Place (W/O Terminals)
	302-0410	1	0-100 Amp		812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
	302-0411	1	0-200 Amp		853-0003	2	Washer, Lock - ET (#6)
	302-0412	1	0-250 Amp		860-0005	1	Nut, Hex (#6-32)
	302-0413	1	0-300 Amp		332-1280	11	Terminal
	302-0605	1	0-400 Amp	20	301-3244	1	Bracket, Mounting - Relay
	302-0719	1	0-75, 0-150 Amp	21	870-0053	1	Nut, Hex (#10-32)
	302-0720	1	0-100, 0-200 Amp	22	850-0030	1	Washer, Lock - Spring (#10)
	302-0721	1	0-150, 0-300 Amp	23	332-0051	1	Clip - Cable
	302-0722	1	0-200, 0-400 Amp	24			Block, Terminal
	302-0723	1	0-250, 0-500 Amp		332-0607	1	12 Place
	302-0724	1	0-375, 0-750 Amp		332-0795	1	16 Place
4			Voltmeter		812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
	302-0421	1	0-300 VAC		850-0020	2	Washer, Lock - Spring (#6)
	302-0422	1	0-600 VAC		853-0003	2	Washer, Lock - IT (#6)
	302-0612	1	0-500 VAC	25			Strip, Marker
	302-0779	1	0-750 VAC		332-1248	1	12 Place
	302-0718	1	0-300, 0-600 VAC		332-1242	1	16 Place
5			Meter, Frequency - Reed Type	26	815-0544	6	Screw, Machine - Round Head with IT Lockwasher (#6-32 x 1/2")
	302-0213	1	115 VAC, 60 Hz				Regulator, Voltage - Torque Matched
	302-0221	1	230 VAC, 60 Hz		27	300-2880	
	302-0234	1	115 VAC, 50 Hz		28	812-0065	4
	302-0256	1	230 VAC, 50 Hz				Screw, Machine - Round Head (#6-32 x 5/8")
6			Meter, Frequency - Pointer Type				Washer, Lock - ET (#6)
	302-0809	1	120 VAC, 60 Hz		29	853-0003	4
	302-0810	1	208 VAC, 60 Hz		30	301-9315	1
	302-0811	1	240 VAC, 60 Hz				Bracket, Mounting - Voltage Regulator
7			Meter, Time Totalizing		33	508-0001	1
	302-0466	1	60 Hz		34	406-0332	2
	302-0469	1	50 Hz		35	800-0045	4
8			Light, Indicator - 125 VAC		36	850-0045	4
	322-0130	1	Red - Upper Scale		37	402-0078	4
	322-0131	1	Red - Lower Scale		38	337-0049	1
	322-0178	1	Red - Blank (No Legend)		39	815-0026	3
9			Lock, Handle - Circuit Breaker		40		Grommet
	320-0307	1			41	301-3158	1
	815-0203	1	Screw, Machine - Round Head (#10-32 x 7/8")		42	821-0010	2
	854-0010	1	Washer, Lock - ET (#10)				Receptacle, Turnbutton Fastener
	871-0010	1	Nut, Hex (#10-32)				Screw, Cap - Hex Head (5/16-18 x 3/8")
10			Breaker, Circuit				Washer, Lock - Spring (5/16")
	320-0431	1					Dampener, Vibration
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")				Strap, Electrical - Ground
							Screw, Machine - Truss Head (#10-32 x 3/8")
	850-0020	4	Washer, Lock - Spring (#6)				Panel, Control - Generator (Selection Required, Consult Your Onan Parts Distributor)
11							Box, Control
	406-0334	2	Washer, Retaining - Turnbutton Fastener				Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
12	406-0333	2	Stud, Turnbutton Fastener	43			Transformer, Current (See Separate Page for Components)
13	517-0131	1	Plug, Plastic				
14	303-0076	1	Knob, Pointer				

Current Transformer



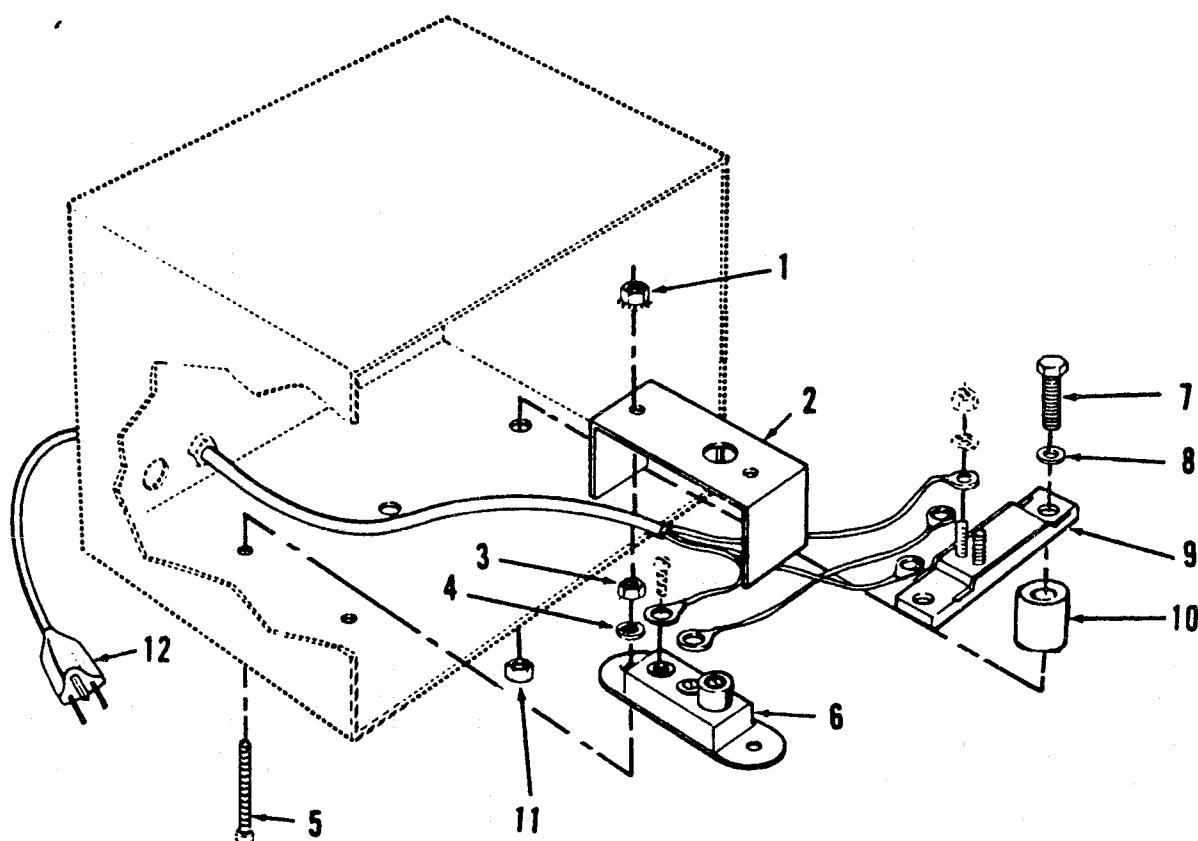
Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Terminal Assembly, Ground (Includes Indented Parts Listed Below)	10			Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
871-0010	3	**	Nut, Hex - Brass (#10-32)	526-0008	6	*	Spec A
854-0010	2	**	Washer, Lock - IT (#10)	526-0008	12	#	Spec B
856-0003	1	**	Washer, Lock - EIT (#10)	11	856-0003	6	**Washer, Lock - EIT (#10)
850-0030	1	*	Washer, Lock - Spring (#10)	12	870-0053	6	**Nut, Hex (#10-32)
526-0049	2	**	Washer, Flat - Brass (13/64"ID x 7/32"OD x 1/32"THK)	13			Transformer, Current Spec A
815-0203	1	**	Screw, Machine - Round Head, Brass (#10-32 x 7/8")	302-0952	3	*	Ratio 75/5, 2 VA
2	813-0110	6	*Screw, Machine - Round Head (#10-32 x 2")	302-0864	3	*	Ratio 150/5, 2 VA
3	854-0010	6	*Washer, Lock - IT (#10)	302-0865	3	*	Ratio 200/5, 2 VA
4	302-0235	3	*Clamp, Upper	302-0866	3	*	Ratio 250/5, 2 VA
5	302-0236	3	*Clamp, Lower	302-0608	3	*	Ratio 400/5, 2 VA
6	302-0253	6	*Shim	302-0547	3	*	Ratio 500/5, 2 VA
7			*Transformer, Current	302-0471	3	*	Ratio 750/5, 2 VA
	302-0117	3	Ratio 50/5, 3 VA	302-1868-01	3	#	Spec B
	302-1365	3	Ratio 75/5, 2 VA	302-1868-02	3	#	Ratio 100/5
	302-0078	3	Ratio 100/5, 2 VA	302-1868-03	3	#	Ratio 150/5, 1.5 VA
	302-0079	3	Ratio 150/5, 1 VA	302-1868-04	3	#	Ratio 200/5, 2.0 VA
	302-0106	3	Ratio 200/5, 1 VA	302-1868-05	3	#	Ratio 300/5, 2.5 VA
	302-0209	3	Ratio 250/5, 1 VA	302-1868-06	3	#	Ratio 400/5, 4.0 VA
	302-0107	3	Ratio 300/5, 1 VA	302-1868-07	3	#	Ratio 500/5, 6.0 VA
8	302-0729	1	*Bracket, Mounting - Transformer	302-1868-08	3	#	Ratio 750/5, 7.5 VA
9			Screw, Machine - Round Head (#10-32 x 1/2")	302-1868-09	3	#	Ratio 800/5, 8.0 VA
	813-0100	6	*	302-1868-10	3	#	Ratio 1000/5, 10.0 VA
	821-0005	6	# Spec B	302-1868-11	3	#	Ratio 1200/5, 12.0 VA
				302-1868-12	3	#	Ratio 1500/5, 15.0 VA
				14	302-0764	1	**Bracket, Mounting - Transform

* - Parts Used During Spec A

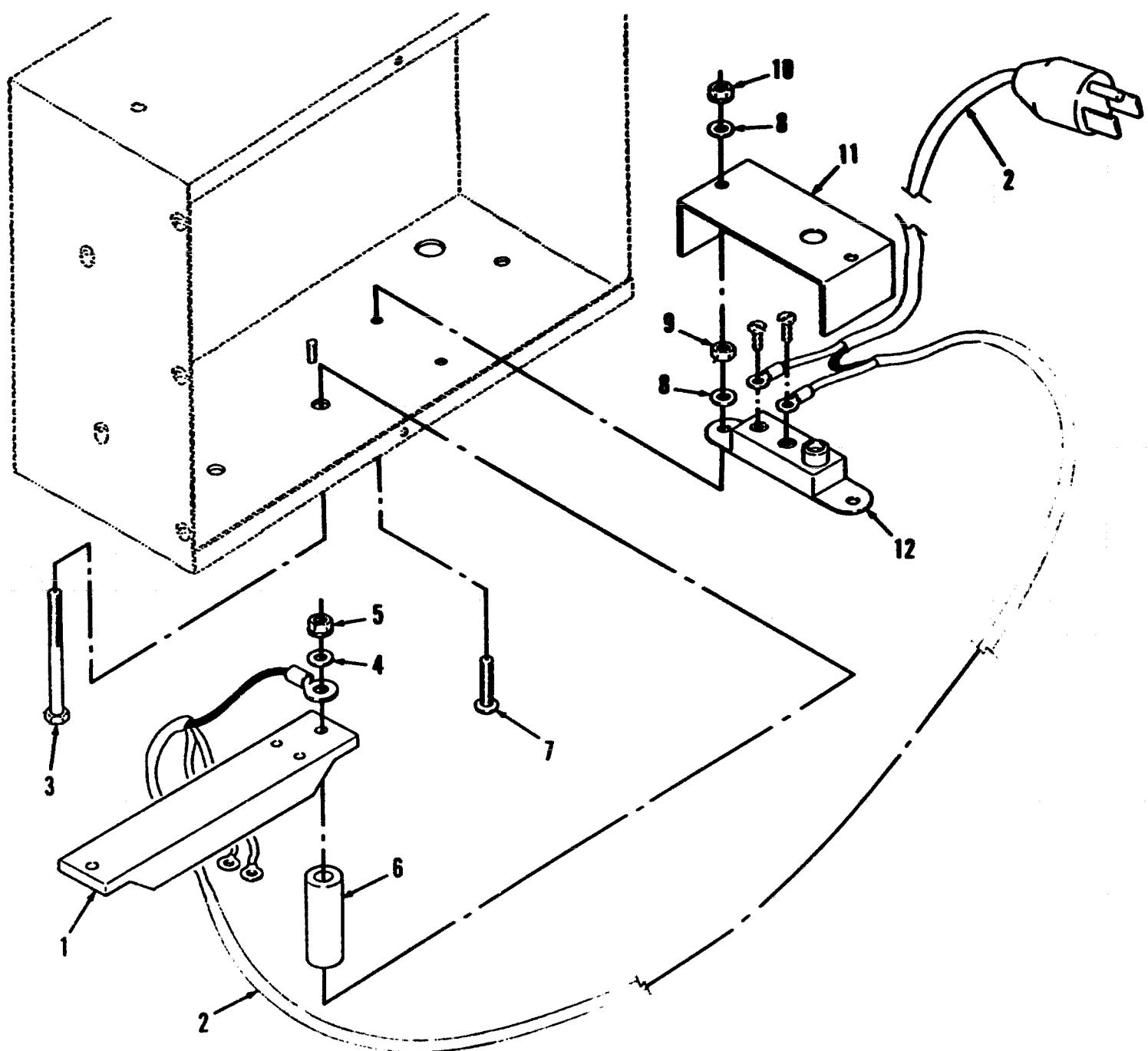
- Parts Used During Spec B

**Heater-Control
(Spec A)**



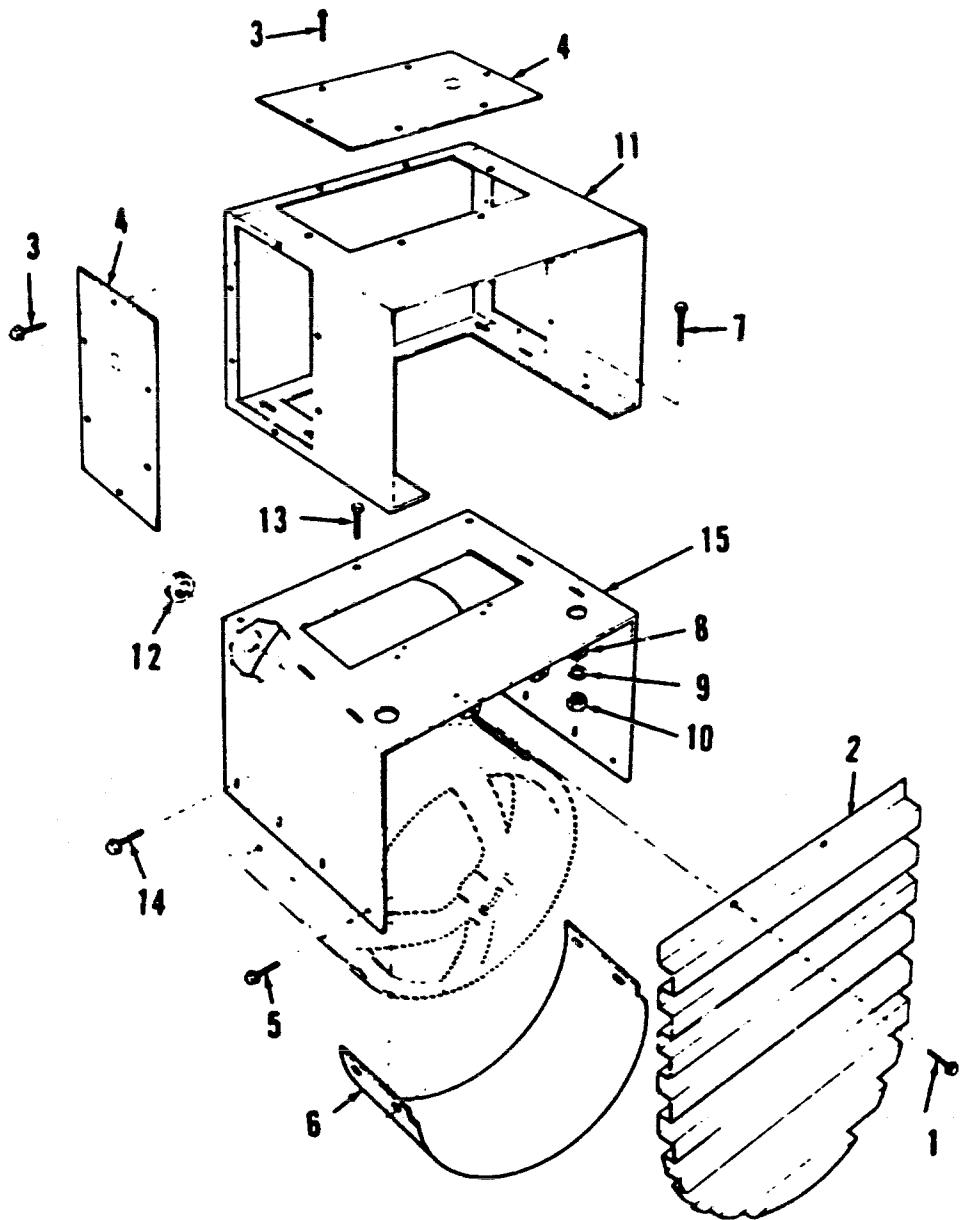
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex W/ET Washer (#6-32)	8	526-0113	2	Washer, Flat (5/16")
2	301-1886	1	Cover, Thermostat	9	333-0151	1	Heater, Electrical - 75 Watt, 120 VAC; 300 Watt, 240 VAC
3	860-0006	2	Nut, Hex (#6-32)	10	130-1107	2	Spacer, Sleeve
4	854-0006	2	Washer, Lock - IT (#6)	11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")	12	335-0161	1	Cable, Electrical
6	309-0128	1	Thermostat - Adjustable				
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")				

**Heater - Control
(Spec B)**



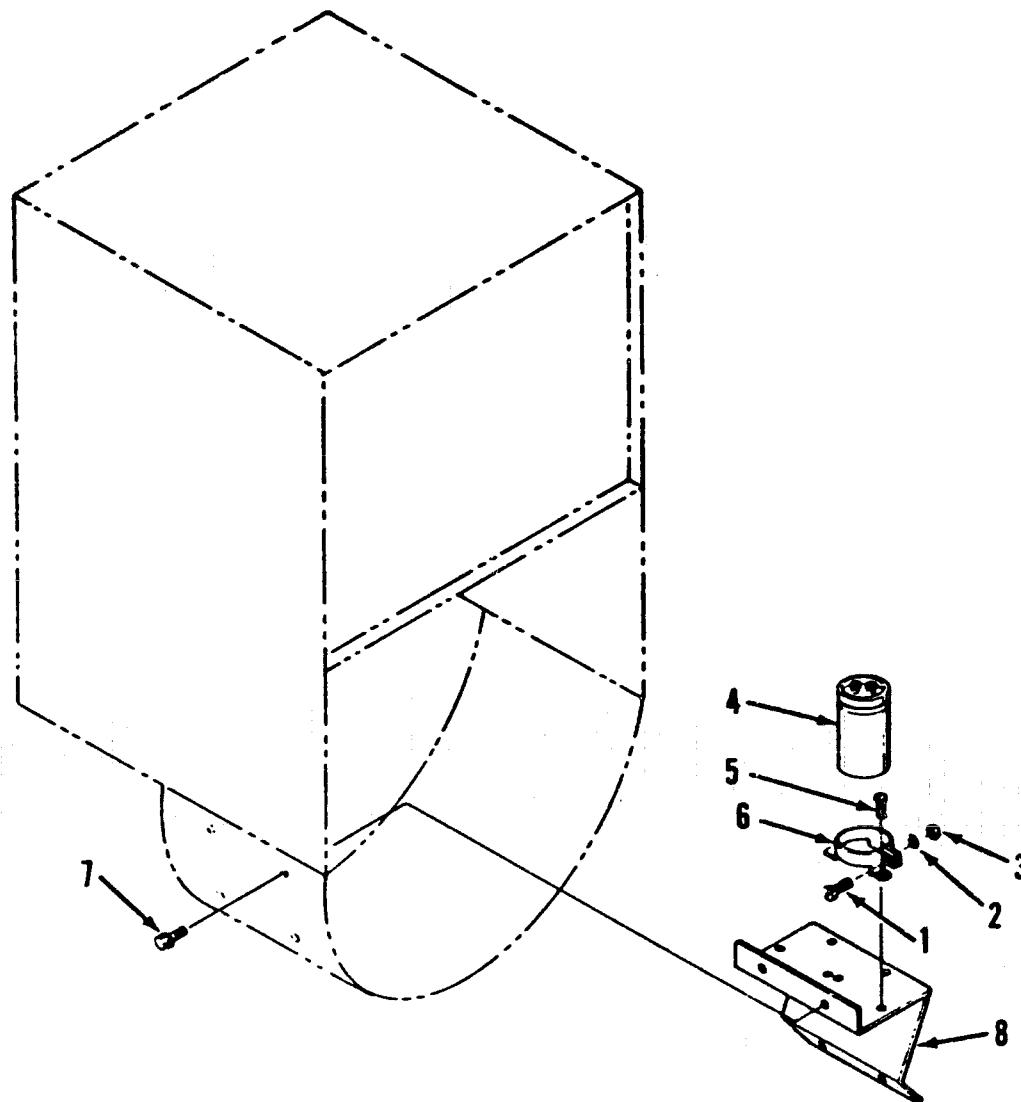
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0151	1	Heater (HR1)	6	130-1107	2	Spacer
2	335-0161	1	Cable	7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
3	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	8	854-0006	4	Washer, Lock - IT (#6)
4	526-0113	2	Washer, Flat (11/32" ID x 1"OD x 3/32"THK)	9	860-0006	2	Nut, Hex (#6-32)
5	870-0257	2	Nut, Self-Locking - Hex Head (5/16-18)	10	870-0183	2	Nut, Hex - With ET (#6-32)
				11	301-1886	1	Cover
				12	309-0128	1	Thermostat

Control Housing



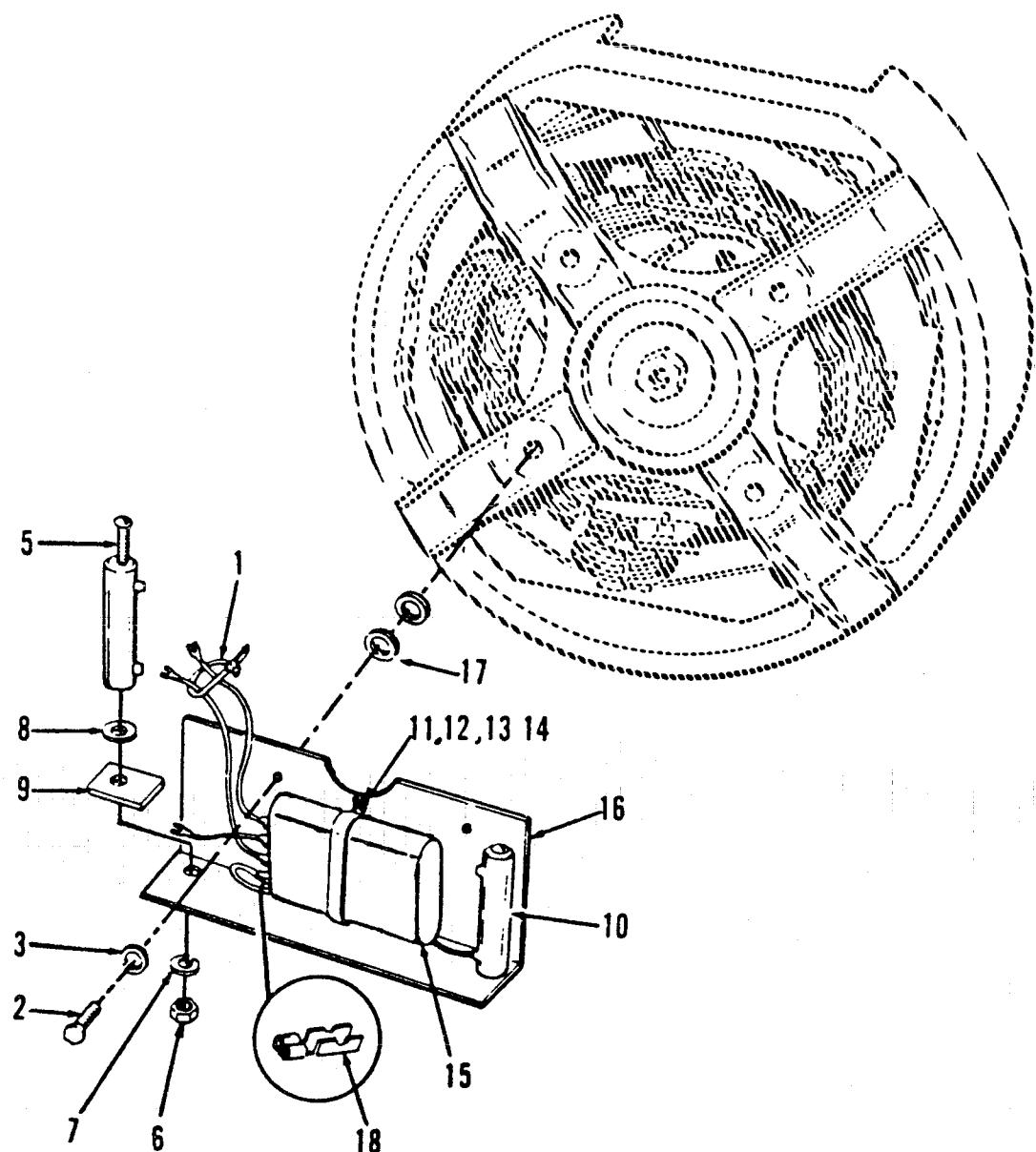
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	9	526-0018	5	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)
2	234-0370	1	Grill, Air - Generator Inlet	10	870-0212	6	Nut, Hex (1/4-20)
3	815-0350	18	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	11	301-3155	1	Housing, Control Box Grommet
4	301-3156	3	Panel Access	12	508-0203	1	Thru October 1984
5	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	13	508-0051	1	Begin November 1984
6	234-0361	1	Wrapper, End Bell	14	821-0010	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
7	821-0018	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	15	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
8	856-0006	1	Washer, Lock - EIT (1/4")		301-3154	1	Saddle, Control Box Mounting

Capacitor Assembly



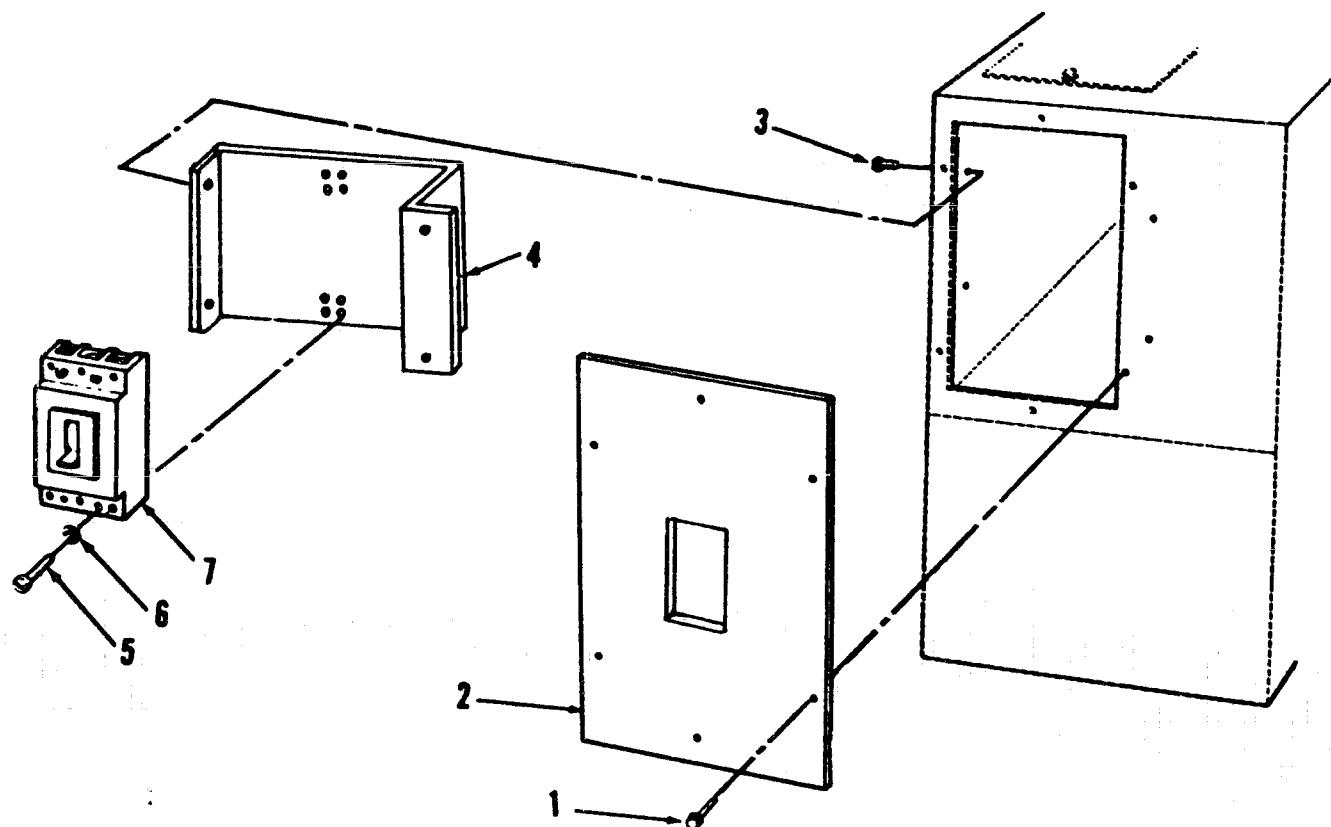
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0078	2	Screw, Machine - Round Head (#8-32 x 7/16")	6	356-0102	2	Clamp, Mounting - Capacitor
2	850-0025	2	Washer, Lock - Spring (#8)	7	821-0009	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")
3	861-0007	2	Nut, Square (#8-32)	8	356-0104	1	Bracket, Mounting - Capacitor Assembly (Bracket Not Required for Square Output Boxes)
4	356-0090	2	Capacitor, Fixed - Electrolytic (1300 MFD)				
5	812-0078	6	Screw, Machine - Round Head (#8-32 x 7/16")				

Filter - Voltage Regulator



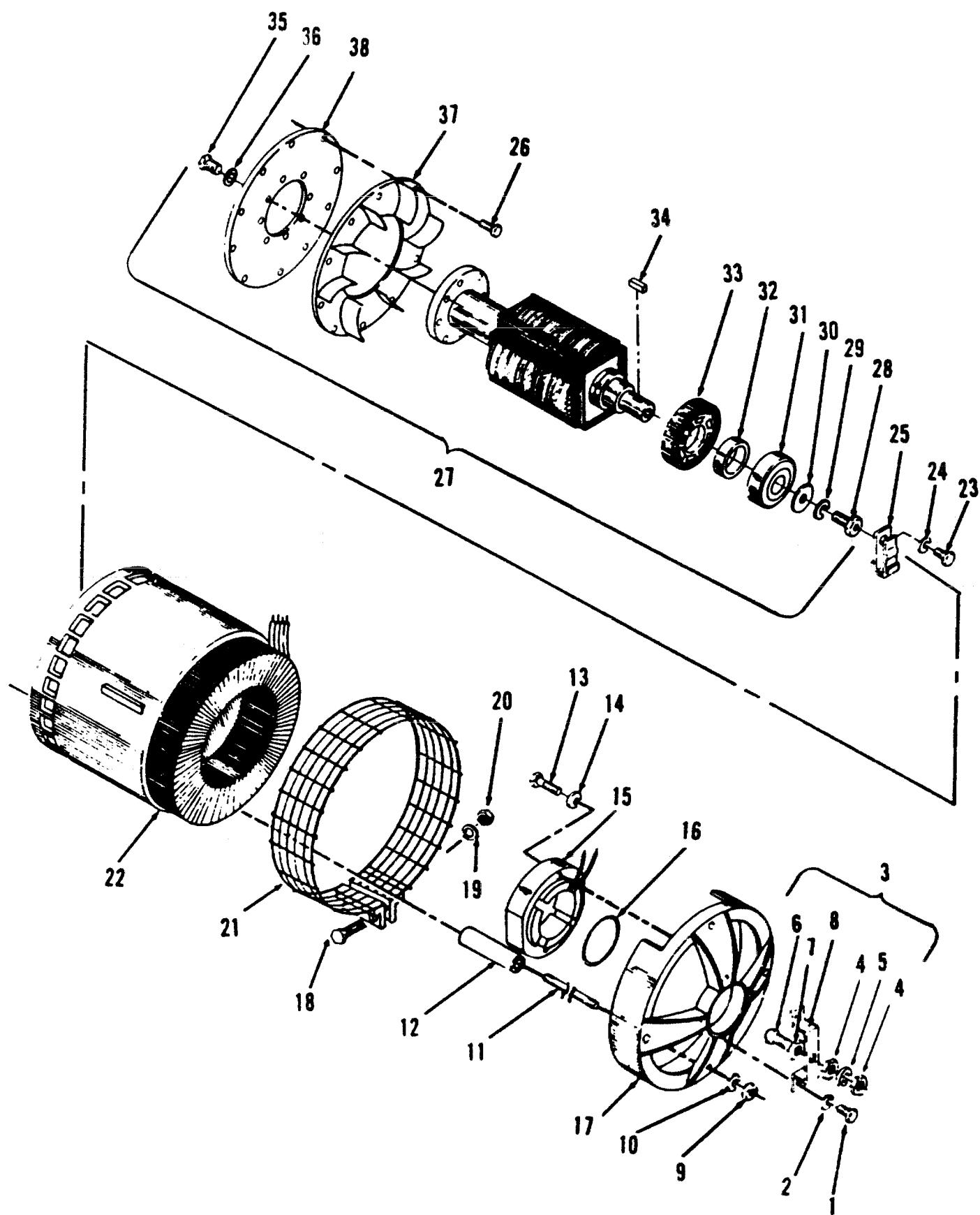
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-0941	5	Tie, Cable	11	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
2	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	12	870-0053	2	Nut, Hex (#10-32)
3	850-0040	2	Washer, Lock - Spring (1/4")	13	850-0030	2	Washer, Lock - Spring (#10)
5	812-0165	2	Screw, Machine - Round Head (1/4-20 x 4-1/2")	14	312-0189	1	Bracket, Mounting - Capacitor
6	862-0001	2	Nut, Hex (1/4-20)	15	312-0188	1	Capacitor, Fixed (15 MFD, 400 VAC)
7	850-0040	2	Washer, Lock - Spring (1/4")	16	232-2218	1	Bracket, Mounting - Filter
8	304-0427	4	Washer, Centering	17	526-0018	15	Washer, Flat (1/4")
9	304-0292	2	Insulator	18	332-0529	4	Terminal Lug Bare (14-18 AWG)
10	354-0025	2	Resistor, Fixed - Wirewound (10 Ohm, 100 Watt)		332-1279	8	Insulated (14-18 AWG)

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0350	6	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	7	320-0380	1	Breaker, Circuit
2	301-7540	1	Panel, Cover - Circuit Breaker	320-0424	1	100 Amp, 277/480 Volt	
3	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	320-0425	1	100 Amp, 347/600 Volt	
4	301-7541	1	Bracket, Mounting - Circuit Breaker	320-0653	1	150 Amp, 277/480 Volt -	
5	812-0156	4	Screw, Machine - Round Head (1/4-20 x 1-1/2")	320-0426	1	175 Amp, 220/380 Volt	
6	850-0040	4	Washer, Lock - Spring (1/4")	320-0348	1	200 Amp, 120/208 Volt	
				320-0422	1	250 Amp, 120/240 Volt	
				320-1639	1	250 Amp, 120/240 Volt -	
				320-0423	1	With Shunt Trip	
				320-1581	1	300 Amp, 120/208 Volt	
				320-0620	1	300 Amp, 120/208 Volt -	
				320-0449	1	With Shunt Trip	
				320-0705	1	300 Amp, 120/208 Volt -	
							With Auxiliary Contacts
							400 Amp, 120/208 Volt
							400 Amp, 120/240 Volt

Generator

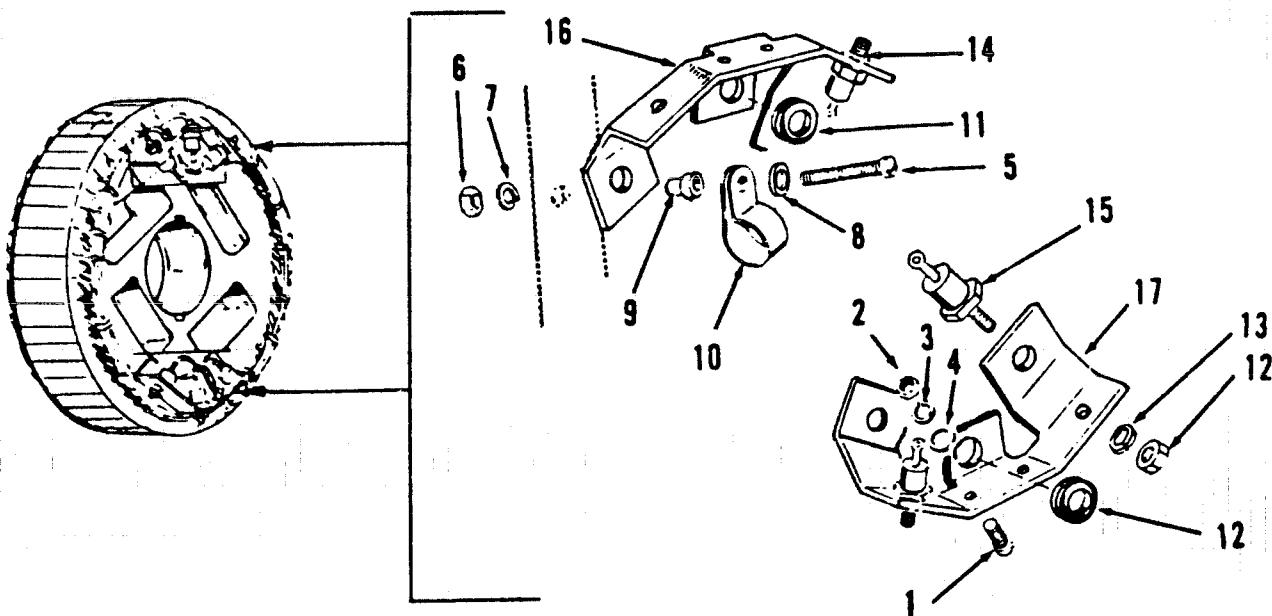


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	24	856-0010	1	Washer, Lock - EIT (3/8")	
2	850-0040	2	Washer, Lock - Spring (1/4")	25	150-0717	1	Switch, Overspeed	
3	150-1456	1	Bracket Assembly - Overspeed Switch (Includes Parts Marked *)	26	805-0018	8	Bolt - Hex Head (3/8-16 UNC)	
					805-0019	8	1"LG 1-1/4"LG	
4	862-0001	2	*Nut, Hex (1/4-20)	27			Rotor Assembly, Generator (Includes Parts Marked #)	
5	853-0013	1	*Washer, Lock - ET (1/4")		201-2672	1	Codes 6D, 9X, 15, 515	
6	150-0723	1	*Contact, Electrical		201-2690	1	Codes 15, 515 (Environmental Protected)	
7	870-0250	1	*Nut, Insulator		201-2675	1	Codes 15, 515 (Extended Stack)	
8	150-1356	1	*Bracket, Mounting - Contact		201-2693	1	Codes 15, 515 (Environmental Protected & Extended Stack)	
9	862-0011	4	Nut, Hex - Grade 8 (3/8-16)		28	800-0513	1	
10	850-0050	4	Washer, Lock - Spring (3/8")		29	850-0079	1	#Screw, Cap - Hex Head with 3/8-16 Tapped Center Hole
11	520-0724	4	Stud (3/8-16 UNC)		30	526-0238	1	#Washer, Lock - Spring (3/4")
	520-0728	4	18-29/32"LG		31	510-0101	1	#Washer, Flat - Steel Alloy (13/16"ID x 2"OD x 3/16"THK)
12	503-0611	4	22-15/16"LG		32	232-2102	1	#Bearing, Ball
13	800-0009	4	Hose, Rubber (7/16"ID x 5/8"OD x 3"LG)		33		#Spacer, Sleeve	
14	850-0040	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")				#Rotor, Assembly - Exciter (See Separate Page for Components)	
15			Washer, Lock - Spring (1/4")		201-1739	1	Standard	
	220-2353	1	Stator, Exciter		201-1845	1	Environmental Protected	
	220-1774	1	Standard		34	515-0145	1	#Key, Machine (1/4" x 1/4" x 7/8")
16	509-0125	1	Environmental Protected				#Bolt, Hex Head - Grade 8 (5/8-11 UNC)	
17	211-0185	1	Seal, Oil - "O" Ring		35		1-1/8" LG	
18	800-0008	2	End Bell, Generator		805-0033	8	1-1/2" LG	
			Screw, Cap - Hex Head (1/4-20 x 1-1/4")		805-0035	8		
19	850-0040	2	Washer, Lock - Spring (1/4")		36	526-0259	8	#Washer, Flat - Hardened Steel (11/16"ID x 1-3/8"OD x 7/64"THK)
20	862-0001	2	Nut, Hex (1/4-20)		37	205-0089	1	#Fan, Generator
21	234-0368	1	Screen, Air - Generator		38	232-2078	1	#Disk, Drive - Generator
22	220-2627	1	Stator, Generator					
	220-1605	1	Code 6D					
	220-1457	1	Code 9X					
	220-1789	1	Code 15					
	220-1460	1	Code 15 (Environmental Protected)					
	220-1792	1	Code 15 (Extended Stack)					
			Code 15 (Environmental Protected & Extended Stack)					
23	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")					

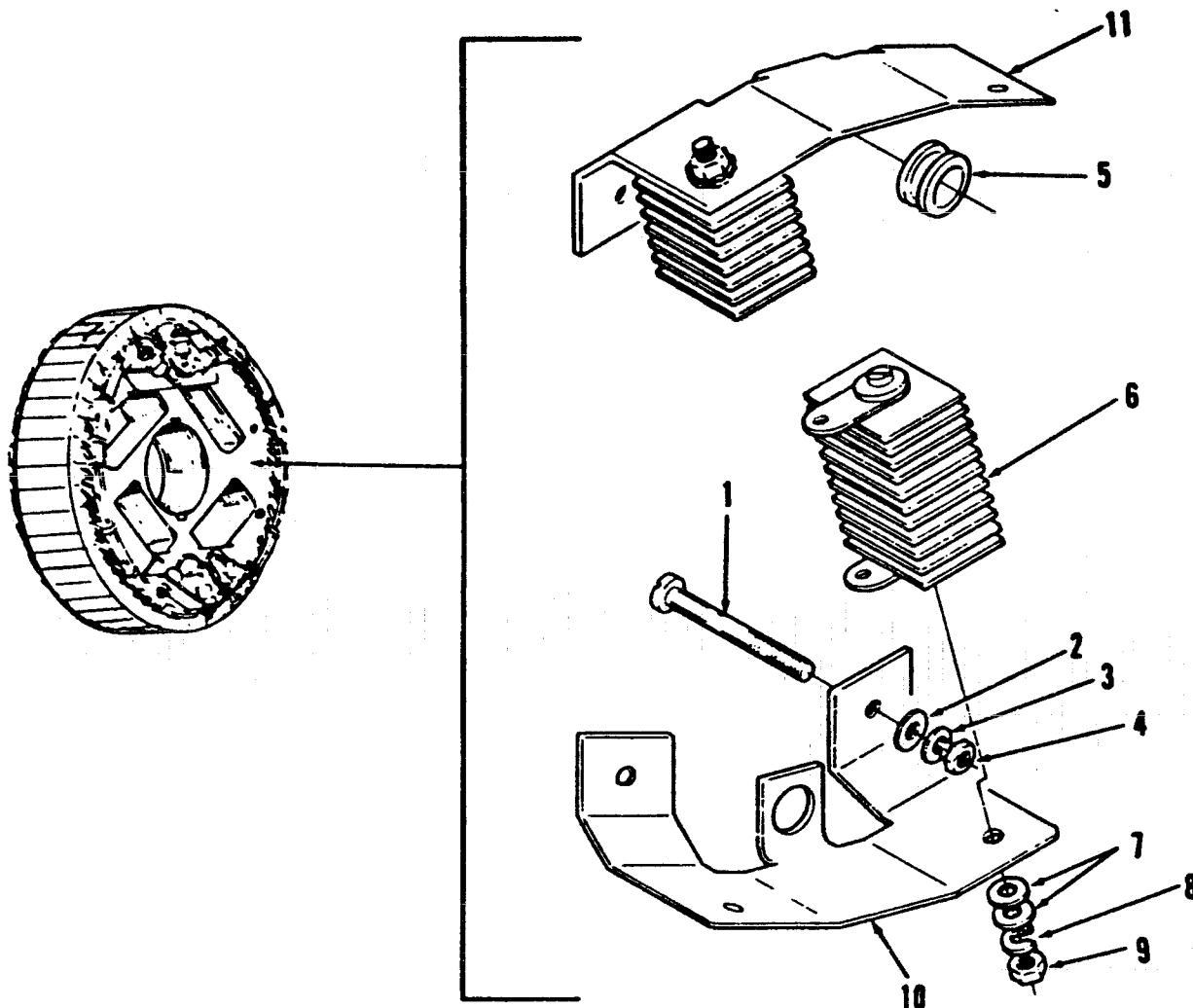
* - Parts Included in Overspeed Bracket Assembly.
- Parts Included in Generator Rotor Assembly.

Exciter Rotor



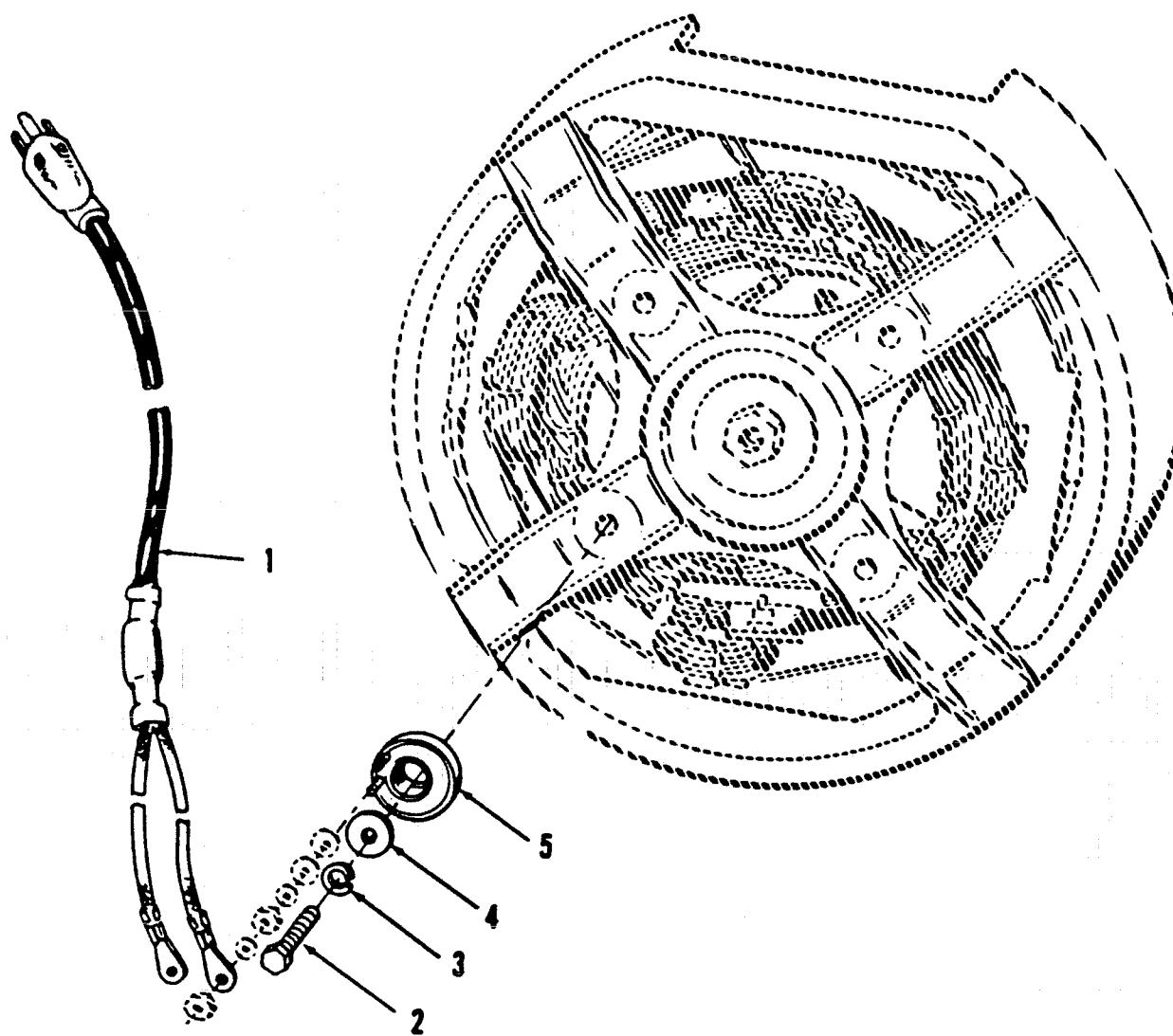
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")	11	508-0093	2	Grommet, Rubber
2	870-0053	2	Nut, Hex (#10-32)	12	870-0053	6	Nut, Hex (#10-32)
3	850-0030	2	Washer, Lock - Spring (#10)	13	850-0030	6	Washer, Lock - Spring (#10)
4	526-0008	2	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	14			Diode, Rectifier - Positive (CR1, CR2, CR3)
5	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")	358-0097		3	Standard
6	870-0053	4	Nut, Hex (#10-32)	358-0044		3	Environmental Protected
7	850-0030	4	Washer, Lock - Spring (#10)	15			Diode, Rectifier - Negative (CR4, CR5, CR6)
8	526-0009	4	Washer, Flat (7/32"ID x 1/2"OD x 1/16"THK)	358-0096		3	Standard
9	508-0187	4	Bushing - Insulating	358-0043		3	Environmental Protected
10	332-0050	2	Clip - Cable	16	363-0054	1	Heatsink - Positive Diodes
				17	363-0055	1	Heatsink - Negative Diodes

Voltage Suppressor



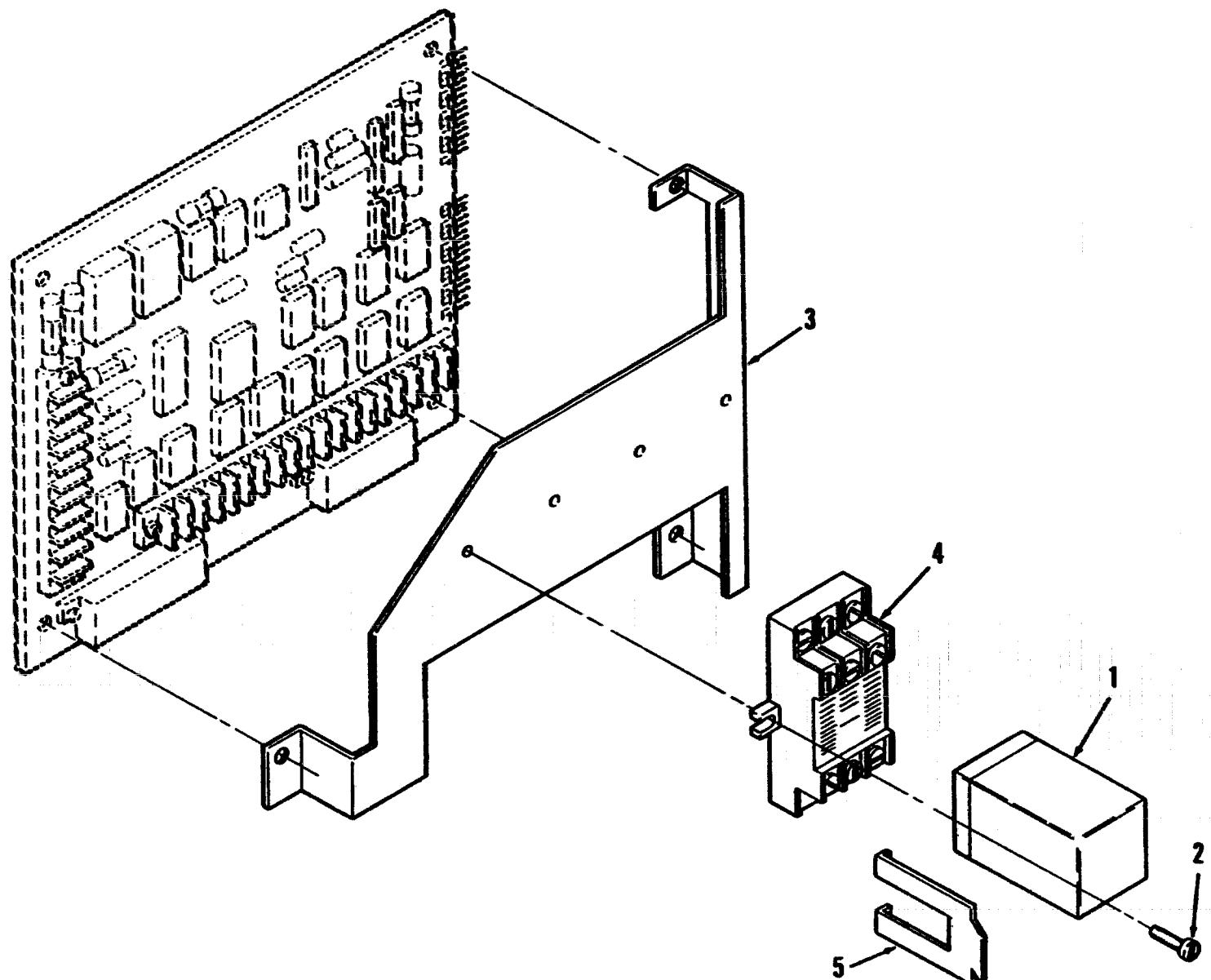
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0112	4	Screw, Machine - Round Head (#10-32 x 2-1/2")	7	526-0140	4	Washer, Flat (7/32"ID x 3/8"OD x 3/64"THK)
2	526-0140	4	Washer, Flat (7/32"ID x 3/8"OD x 3/64"THK)	8	850-0030	4	Washer, Lock - Spring (#10)
3	850-0030	4	Washer, Lock - Spring (#10)	9	870-0053	4	Nut, Hex (#10-32)
4	870-0053	4	Nut, Hex (#10-32)	10	363-0054	1	Heatsink - Positive Diodes
5	508-0093	2	Grommet, Rubber	11	363-0055	1	Heatsink - Negative Diodes
6	305-0526	1	Set, Voltage Suppressor (A Matched Pair)				

Heater-Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable, Electrical (Includes Thermostat)	3	850-0038	1	Washer, Lock - Spring (1/4")
335-0146	1	1	120 VAC	4	526-0158	1	Washer, Flat (17/64"ID x 1"OD x 1/8"THK)
335-0147	1	1	240 VAC	5			Heater, Electrical
2	800-0004	1	Screw, Cap - Hex Head (1/4-20 x 5/8")	333-0059		1	120 VAC, 125 Watt
				333-0192		1	240 VAC, 200 Watt

Run Relay
(Spec B)

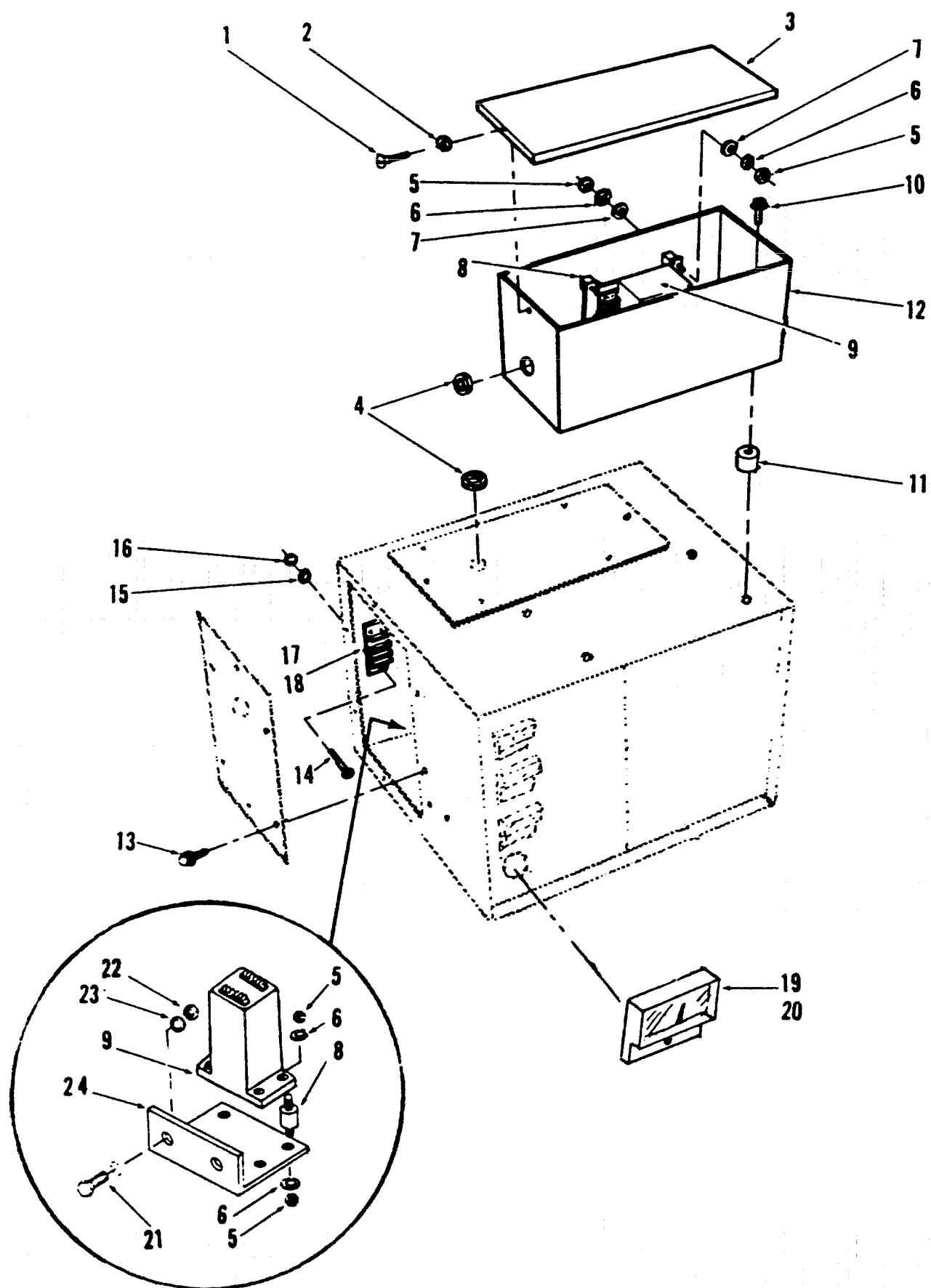


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1058	1	Relay, Run (K11) (Quantity as Required)
2	815-0388	2	*Screw, Pan Head - Cross Recessed Thread (#6-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	319-0447	1	Bracket, Relay Mounting
4	323-0804	1	*Socket, Relay
5	307-1987	2	*Holdown, Relay

* - Quantities listed are for one mounted relay.

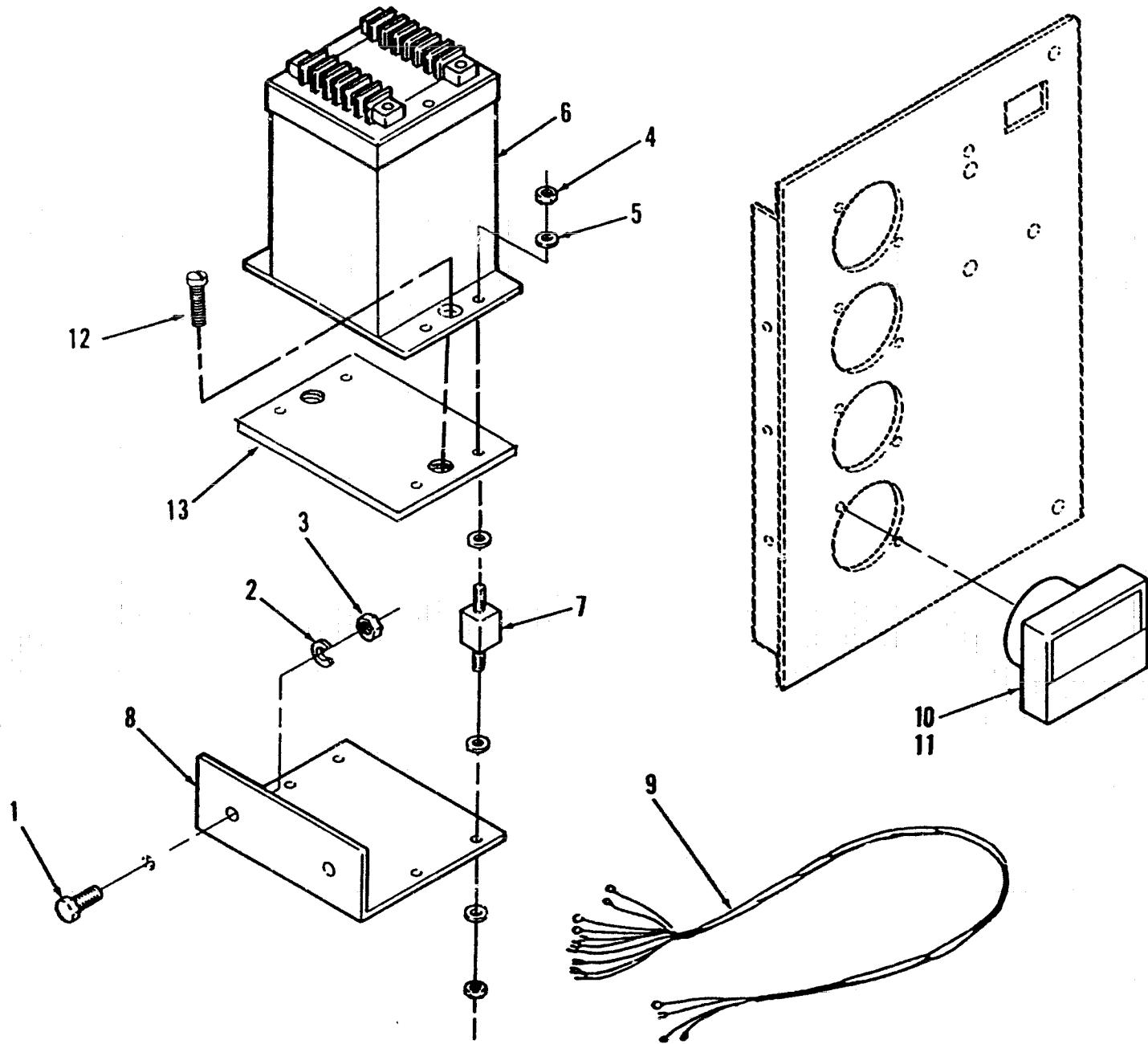
Wattmeter
(Spec A)



**Wattmeter
(Spec A)**

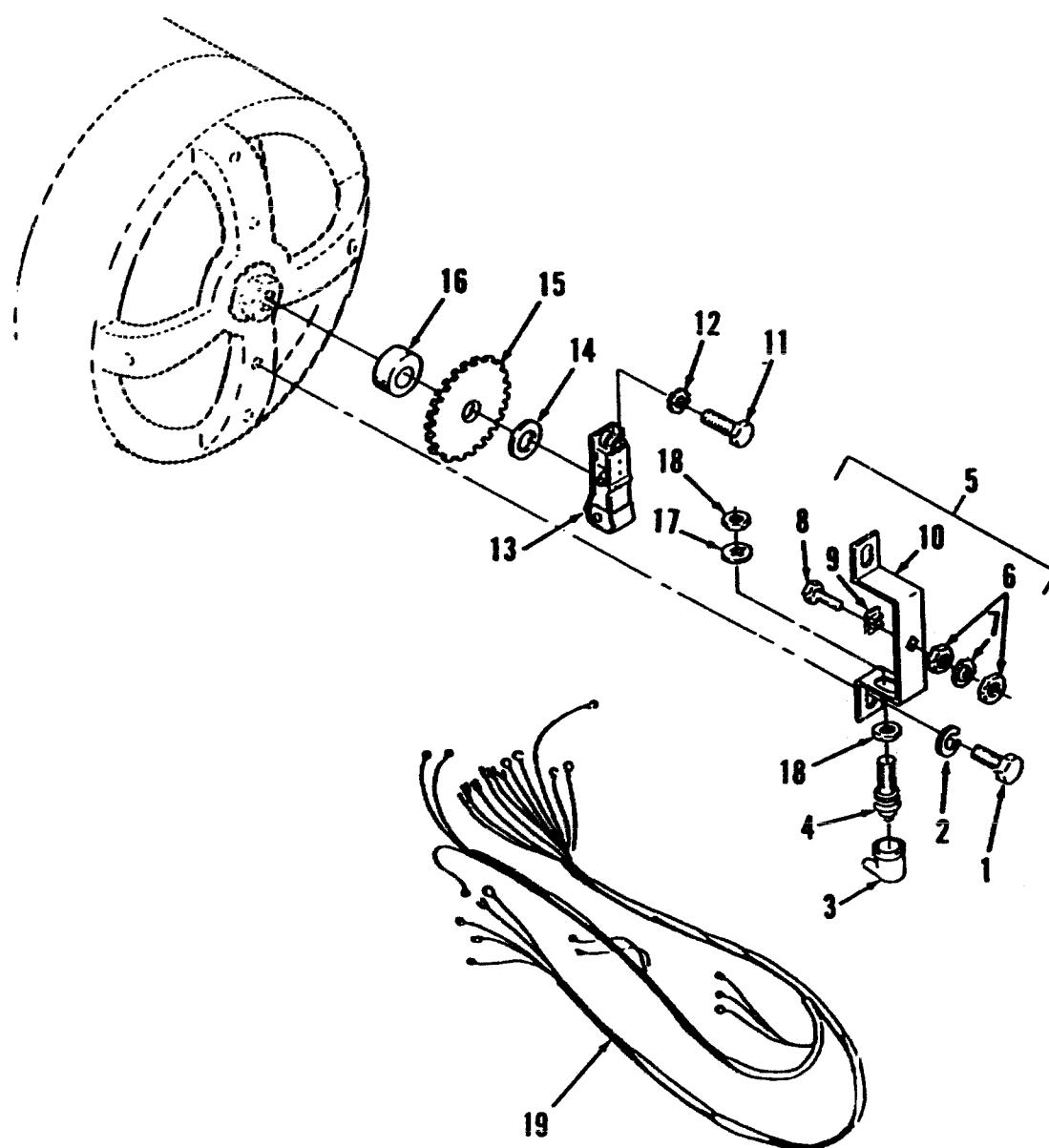
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0026	2	Screw, Machine - Truss Head (#10-32 x 3/8")	18	332-0610	1	Strip, Marker
2	853-0008	2	Washer, Lock - ET (#10)	19	302-1722	1	Wattmeter (Less Replaceable Dial)
3	301-3476	1	Cover - Transducer Box (External Installation)	20	302-1721-01	1	Dial, Wattmeter
4	508-0001	2	Grommet, Rubber	302-1721-02	1	Scale 0-35 KW	
5	860-0008	8	Nut, Hex (#8-32)	302-1721-03	1	Scale 0-50 KW	
6	853-0005	8	Washer, Lock - ET (#8)	302-1721-04	1	Scale 0-70 KW	
7	526-0003	8	Washer, Flat (11/64"ID x 3/8"OD x 1/32"THK)	302-1721-05	1	Scale 0-90 KW	
8	402-0354	4	Mount, Vibration	302-1721-06	1	Scale 0-115 KW	
9			Transducer, Watt	302-1721-07	1	Scale 0-160 KW	
	302-1082	1	3 Phase, 60 Hertz	302-1721-08	1	Scale 0-180 KW	
	302-1083	1	3 Phase, 50 Hertz	302-1721-09	1	Scale 0-200 KW	
	302-1113	1	1 Phase, 60 Hertz	302-1721-10	1	Scale 0-250 KW	
				302-1721-11	1	Scale 0-300 KW	
				302-1721-12	1	Scale 0-350 KW	
				302-1721-13	1	Scale 0-400 KW	
10	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	302-1721-14	1	Scale 0-500 KW	
11	402-0078	4	Mount, Vibration	302-1721-15	1	Scale 0-600 KW	
12	301-3477	1	Box, Transducer (External Installation)	302-1721-16	1	Scale 0-700 KW	
				302-1721-17	1	Scale 0-800 KW	
				21	821-0017	2	Scale 0-1200 KW
13	815-0350	6	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	22	862-0014	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
14	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")	23	850-0045	2	Nut, Hex (5/16-18)
15	853-0003	4	Washer, Lock - ET (#6)	24	301-6987	1	Washer, Lock - Spring (5/16")
16	860-0006	4	Nut, Hex (#10-32)				Bracket, Mounting (Internal Installation)
17	332-0609	1	Block, Terminal				

**Wattmeter
(Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Self-locking - HWH (5/16-18 x 1/2")	8	301-6987	1	Bracket, Mounting
2	850-0045	2	Washer, Lock - Spring (5/16")	9	338-1936	1	Harness, Wiring
3	862-0014	2	Nut, Hex (5/16-18)	10	302-1722	1	Meter, Watt (Less Dial)
4	860-0008	8	Nut, Hex (#8-32)	11	302-1721-04	1	Dial, Wattmeter
5	856-0002	16	Washer, Lock - EIT (#8)	12	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
6	302-1833-01	1	Transducer, Watt	13	319-0030	1	Plate, Support - Transducer
7	402-0354	4	Mount, Shock				

Magnetic Pickup
(Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	12	856-0010	1	Washer, Lock - FIT (3/8")
2	850-0040	2	Washer, Lock - Spring (1/4")	13	150-0717	1	Switch, Overspeed (S3)
3	150-1410	1	Cap, Insulator	14	526-0077	1	Washer, Flat (3/8")
4	150-1406	1	Sensor, Speed - Magnetic	15	150-1557	1	Wheel, Sensor
5	150-2117	1	Bracket and Point Assembly (Includes Parts Marked *)	16	370-4011	1	Spacer
6	862-0001	2	*Nut, Hex (1/4-20)	17	854-0031	1	Washer, Lock - IT (3/4")
7	853-0013	1	*Washer, Lock - ET (1/4")	18	868-0011	2	Nut, Hex - Jam (3/4-16)
8	150-0723	1	*Point, Contact	19	338-1930	1	Harness, Wiring - Magnetic Pickup (A16 to A11)
9	870-0250	1	*Nut, Insulator				
10	301-9402	1	*Bracket, Mounting				
11	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")				

* - Parts Included in 150-2117 Bracket and Point Assembly

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